

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

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TIMOTHY P. MURRAY
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JUDYANN BIGBY, MD
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COMMISSIONER

01/26/2012

Larry Bates
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6622

Khan, Annie (DPH)

From: Khan, Annie (DPH)
Sent: Thursday, January 12, 2012 12:12 PM
To: Bates, Larry (SUF); Corbett, Kate (DPH)
Subject: RE: Lab Notes and Summons BMC Docket Number [REDACTED] case

Hi Larry,

Hope this email finds you well.

Upon reviewing this case, the Lab#s may be incorrect.

At your convenience, could you please check if these are the correct Lab#s?

Sorry for the inconvenience.

Thanks.

Annie
Drug Analysis Lab
617-983-6622 (work)
617-983-6625 (fax)

Lab#

process of
elimination
ASD

From: Bates, Larry (SUF)
Sent: Wednesday, January 11, 2012 2:58 PM
To: Khan, Annie (DPH); Corbett, Kate (DPH)
Subject: Lab Notes and Summons BMC Docket Number [REDACTED] case

Greetings Once More

Attached please find a summons for your appearance on the above given case at BMC for Feb 15.
Request is also made for you forward a copy of lab notes for case number [REDACTED]
and should you not be able to attend the court date, please notify me. Lastly, thank you for your assistance.

Larry Bates

1/26/2012

Corbett_email_PRR_019761

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Writing of the Standard Operating Procedures (SOPs) and Protocols.

*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

*Maintenance and repairs of analytical instruments.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

*Method Development for creating new techniques for the QC Dept. and FDA.

*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Courses:

Department of Justice – Forensics Professionals

Introduction to Forensic Drug Chemistry

Chemical Spot Test and Mechanism for Illicit Drugs

Forensic Mass Spectrometry

Forensic Science 101: An Introduction

Fundamentals of Forensic Questioned Documents

Perspectives in Expert Testimony

Evidence Analysis

Ethics in Forensic Science

Transition to Leadership

Fundamentals of Forensic Toxicology

Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectrum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



DRUG RECEIPT

CC # [REDACTED]

BOOK # 67

PAGE # 6

DESTRUCTION # _____

District/Unit D-4 DCU

Name & Rank of Arresting Officer Sgt. Det. Keenan ID# 10652

DEFENDANT'S NAME

ADDRESS

CITY

STATE

Boston

MA

Boston

MA

LAB USE ONLY

DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITY

GROSS
WEIGHT

ANALYSIS
NUMBER

White rock (crack cocaine)

2 plb's

4.36g

White pills (800 mg Gabapentin)

40 pills

20.27g

Tan powder (Heroin)

46 G/B's

57.89g

To be completed by ECU personnel only

Name and Rank of Submitting Officer Sybil White ID# 11064

Received by [Signature] Date 2-3-11

ECU Control # _____

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Date Analyzed: 2/10/11

Amount:
No. Cont: 2 Cont: pb
Date Rec'd: 02/03/2011
Gross Wt.: 4.36

Subst: SUB

No. Analyzed: 1
Net Weight: 0.16

Tests: 6 ASD
• 20AT

Prelim: cocaine (E)

Findings: Cocaine

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Date Analyzed: 03-26-11

Amount: 40.0
No. Cont: 1 Cont: pb
Date Rec'd: 02/03/2011
Gross Wt.: 20.29

Subst: TAB

No. Analyzed:
Net Weight:

Tests: 1A + 2 ASD

Prelim: E

Findings: gabapentin

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Date Analyzed: 2/16/11

Amount:
No. Cont: 46 Cont: gb
Date Rec'd: 02/03/2011
Gross Wt.: 57.89

Subst: SUB

No. Analyzed: 5
Net Weight: 0.86

Tests: 25 ASD
• 10KAC

Prelim: Heroin

Findings: Heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ASD

No. of samples tested: Evidence Wt.

PHYSICAL DESCRIPTION:

40 white oval tablet
in 1 pb

Gross Wt ():

Gross Wt ():

Pkg. Wt:

Net Wt: 51.2238

84444

800

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate ()

Marquis

Froehde's

Mecke's

Microcrystalline Tests

Gold
Chloride

TLTA ()

OTHER TESTS

monomer 91P

PRELIMINARY TEST RESULTS

RESULTS gabapentin

DATE 3-26-11

GC/MS CONFIRMATORY TEST

RESULTS

MS
OPERATOR

DATE

Drug Information

DRUG NAME: GABAPENTIN

INGREDIENTS: GABAPENTIN -- 800 MG

Color: White

Shape: Oval

Imprint: 4444 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side. , Hourglass 4444 800 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side. , 800

Form: Oral Tablet

Available-Container-Size: Bottle of 100 , Bottle of 500 , Strip of 100 , Bottle of 1000

AAPCC Code: 077730 - Other Types of Anticonvulsant (Excluding Barbiturates)

NDC: 0093-4444-01

0093-4444-05

0172-4444-60

0172-4444-70

0172-4444-10

Excipients: Lactose (Monohydrate) ; Cellulose, Microcrystalline ; Polyethylene Glycol

Regulatory Status: RX

Availability: United States

Product ID 6738350

Contact: Teva Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Boston ANALYST ADD
No. of samples tested: 5 Evidence Wt.

PHYSICAL DESCRIPTION:

Beige powdered substance
in 46 bags

1 bag empty → not weighed.

Gross Wt (45): 9.7000

Gross Wt (5): 1.0902

Pkg. Wt:

Net Wt:

PRELIMINARY TESTS

Spot Tests

Cobalt
S Thiocyanate (+)
S Marquis +
S Froehde's +
S Mecke's +

Microcrystalline Tests

Gold
Chloride
TLTA ()

OTHER TESTS

SGC+

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 2-08-11

GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS
OPERATOR ICAC

DATE 2-16-11

Sample #:

samples tested:

5

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.2187	0.1957	0.0180	26			
2	0.2143	0.2007	0.0136	27			
3	0.2164	0.1989	0.0175	28			
4	0.2311	0.2021	0.0290	29			
5	0.2227	0.2063	0.0164	30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations:

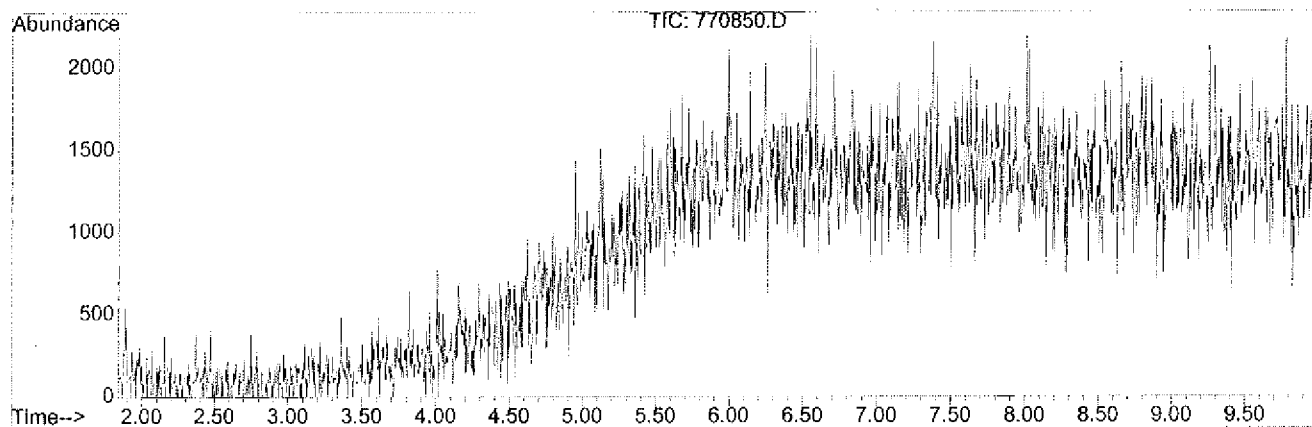
$$\text{Est Net wt} = 0.0945 / 5 = 0.0189(46)$$

$$= 0.8694$$

V KHC
1/25/12

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770850.D
Operator : SLD
Date Acquired : 9 Feb 2011 21:22
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



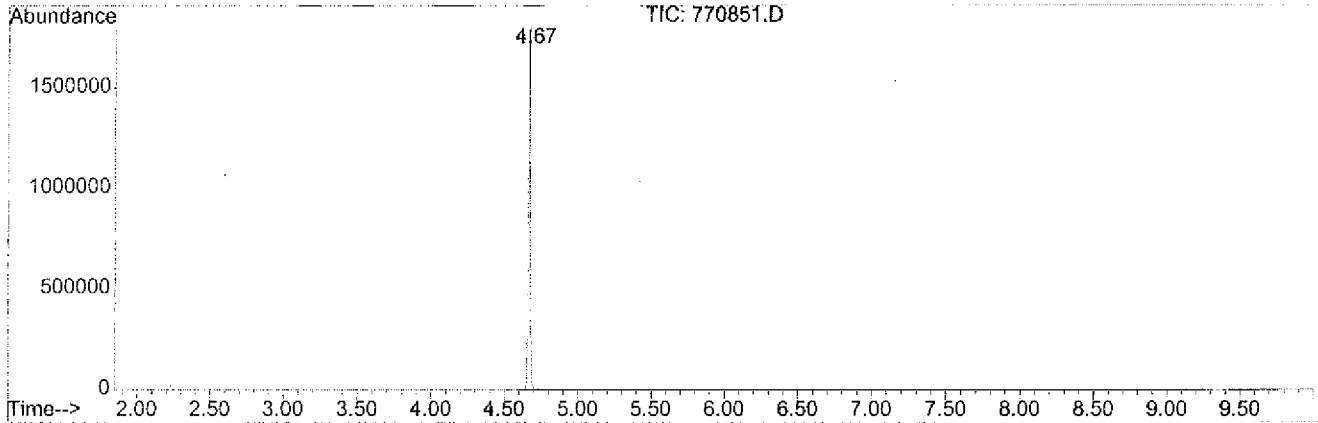
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770851.D
 Operator : SLD
 Date Acquired : 9 Feb 2011 21:35
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 51
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.666	1636731	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

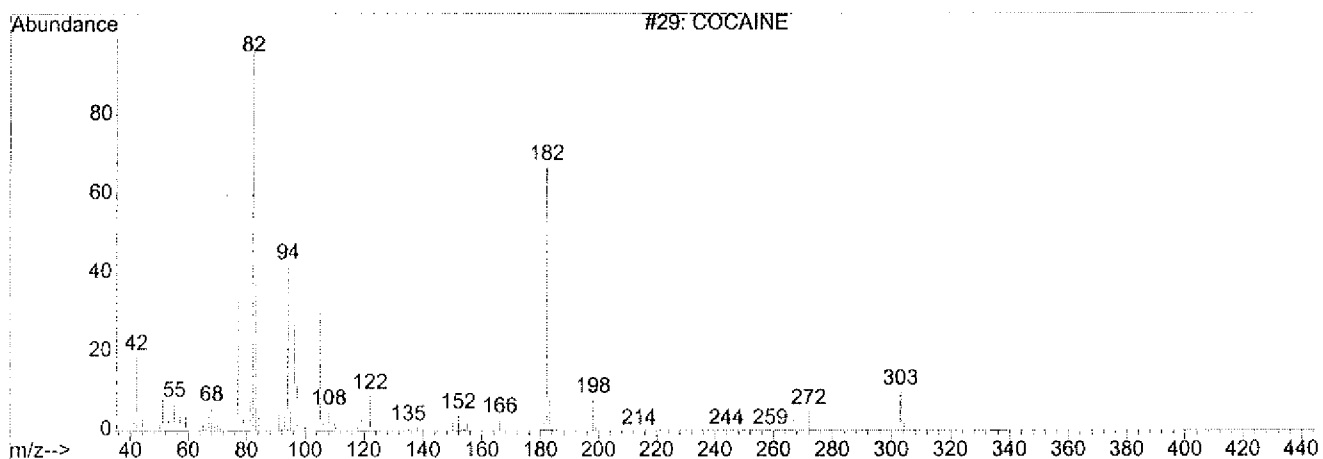
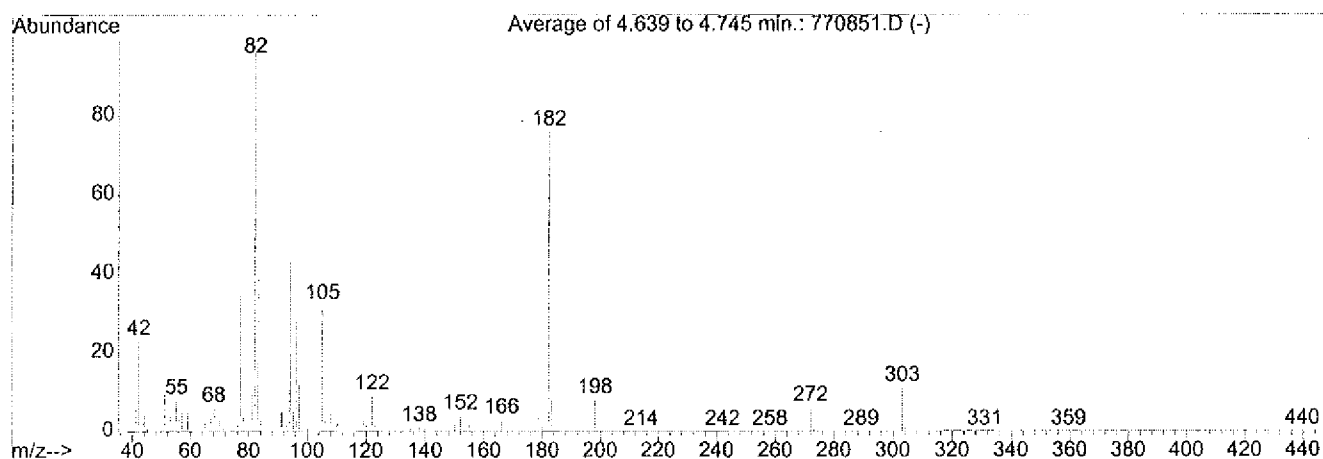
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File Name       : D:\SYSTEM4\02_09_11\770851.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 21:35
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 51
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

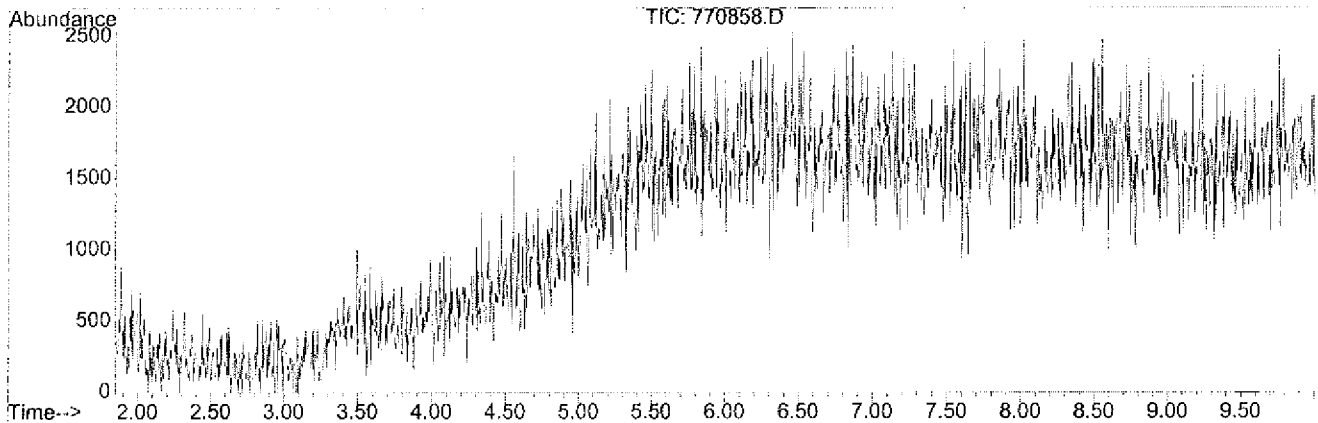
PK#	RT	Library/ID	CAS#	Qual
1	4.67	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770858.D
Operator : SLD
Date Acquired : 9 Feb 2011 23:12
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



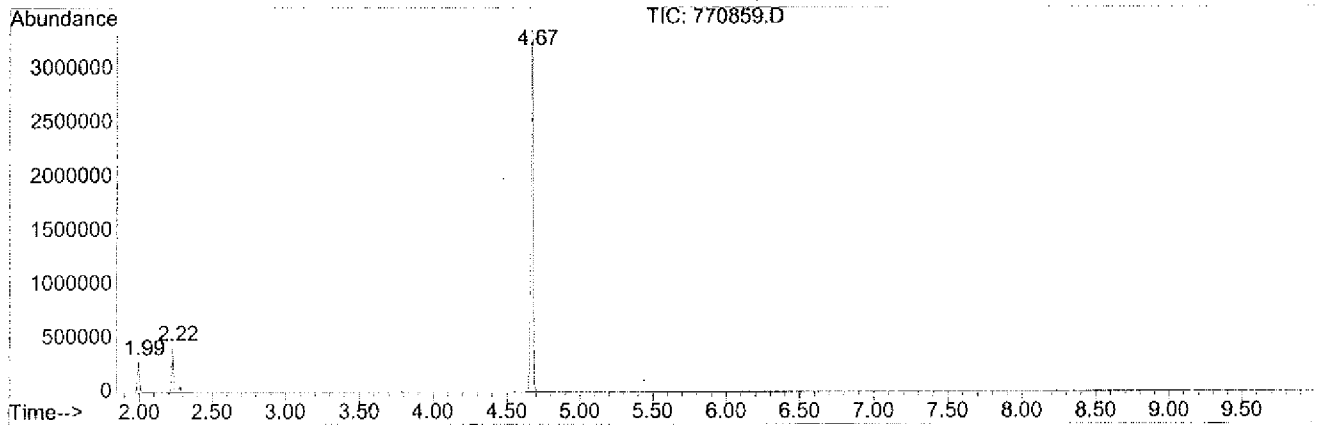
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770859.D
 Operator : SLD
 Date Acquired : 9 Feb 2011 23:26
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 59
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
1.992	295989	6.99	8.31
2.225	372895	8.81	10.46
4.668	3563840	84.20	100.00

Area Percent / Library Search Report

Information from Data File:

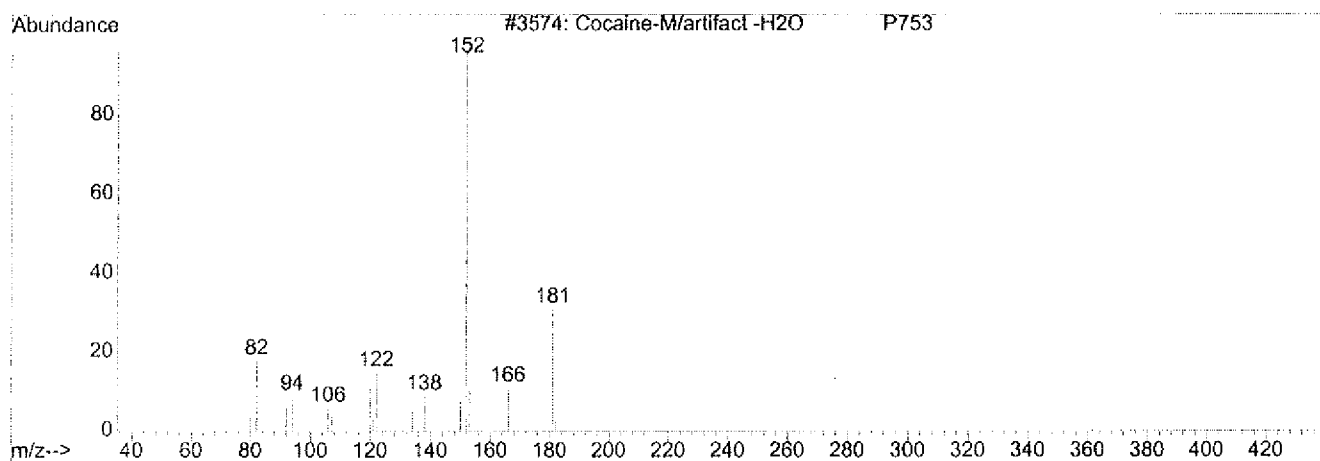
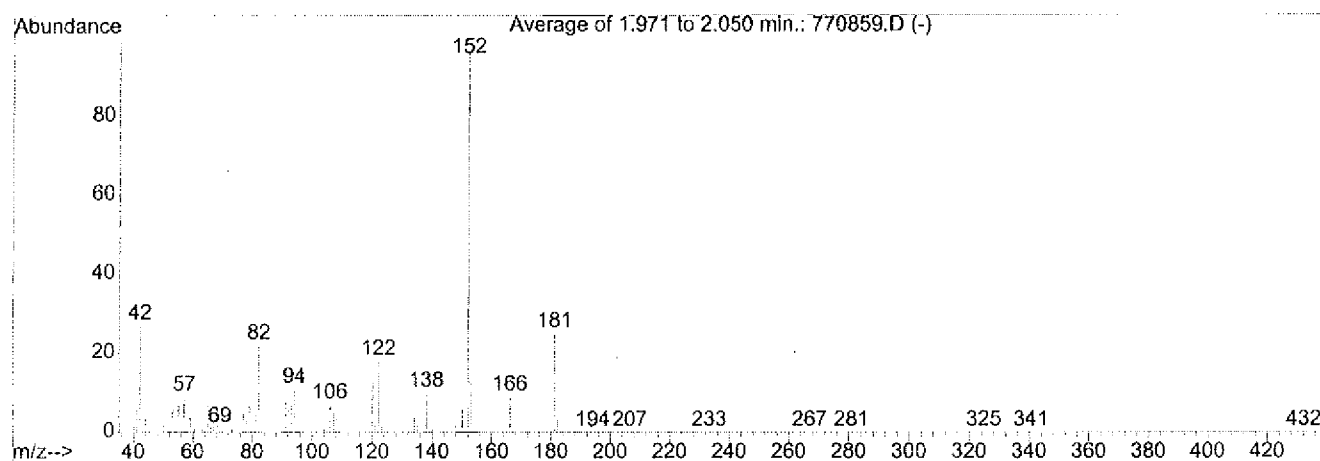
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File Name       : D:\SYSTEM4\02_09_11\770859.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 23:26
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 59
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	1.99	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	96
		MDA-M (desmethylenyl-methyl-) ME @	000000-00-0	37
		Metipranolol-M/artifact AC	000000-00-0	32



Area Percent / Library Search Report

Information from Data File:

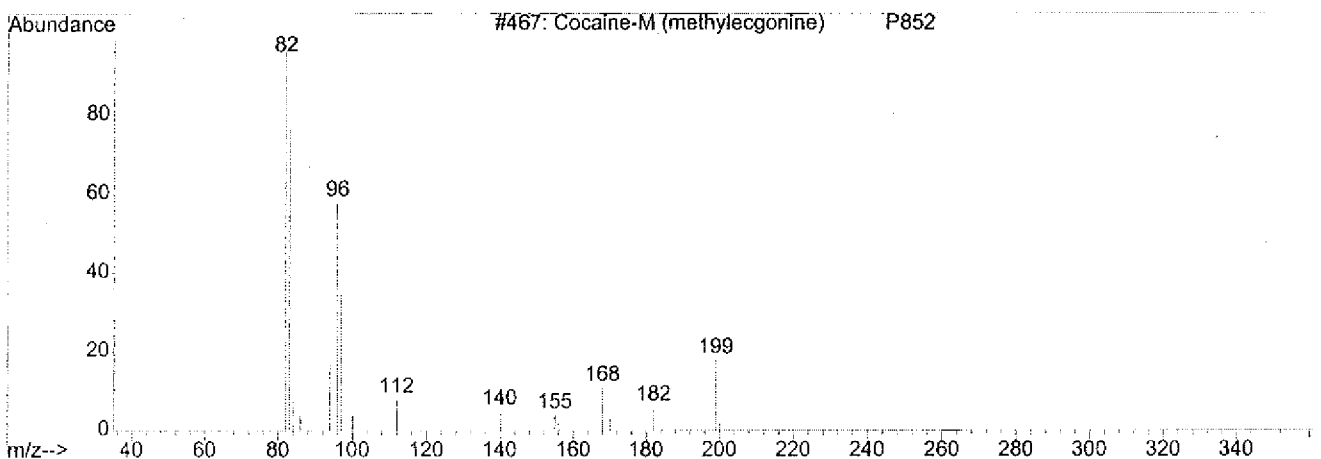
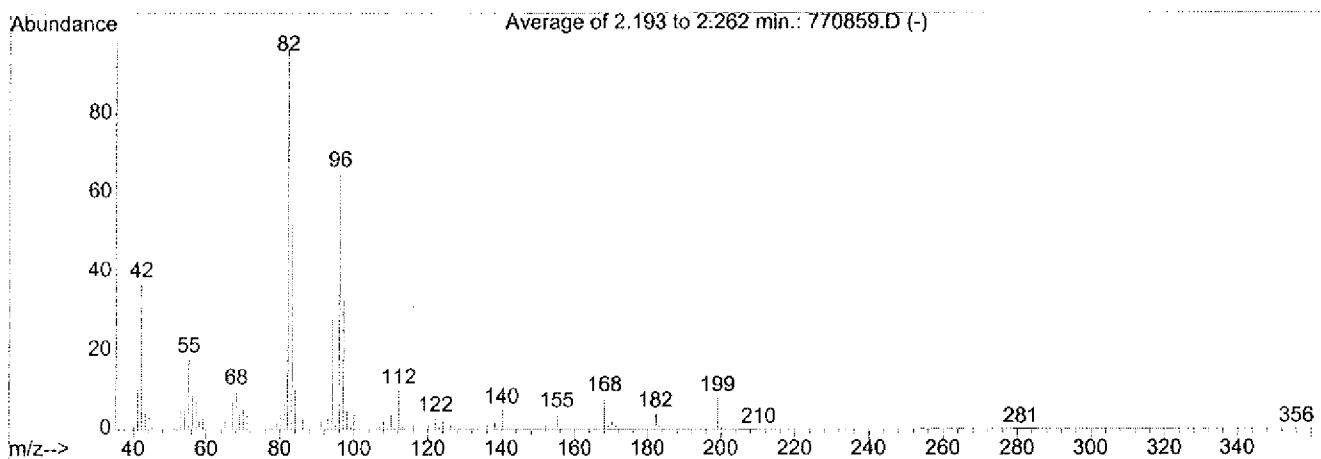
```

File Name       : D:\SYSTEM4\02_09_11\770859.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 23:26
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 59
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	2.22	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	96
		Cocaine	000050-36-2	38
		Cocaine-M (methylecgonine) AC	000000-00-0	9



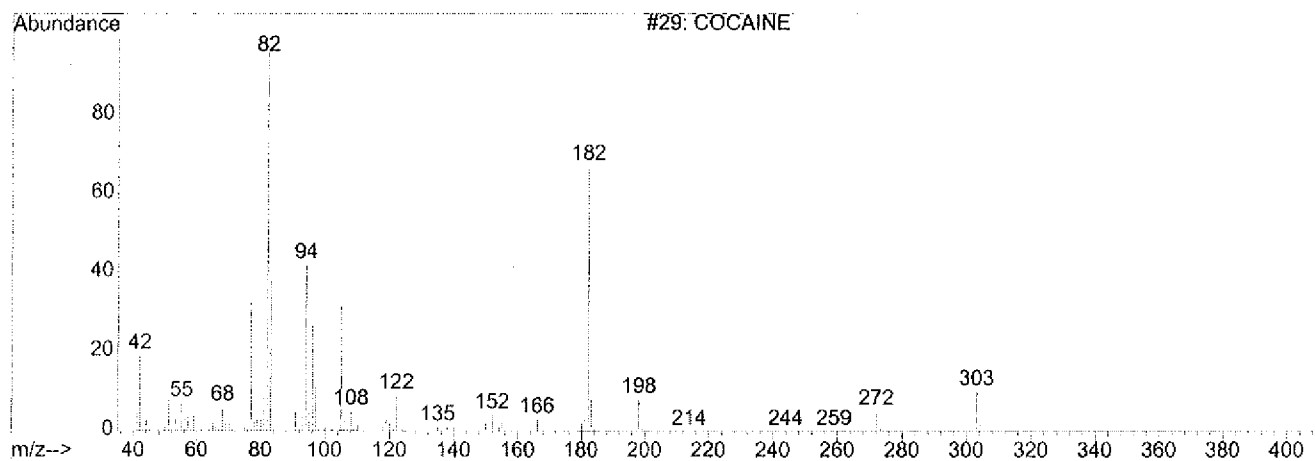
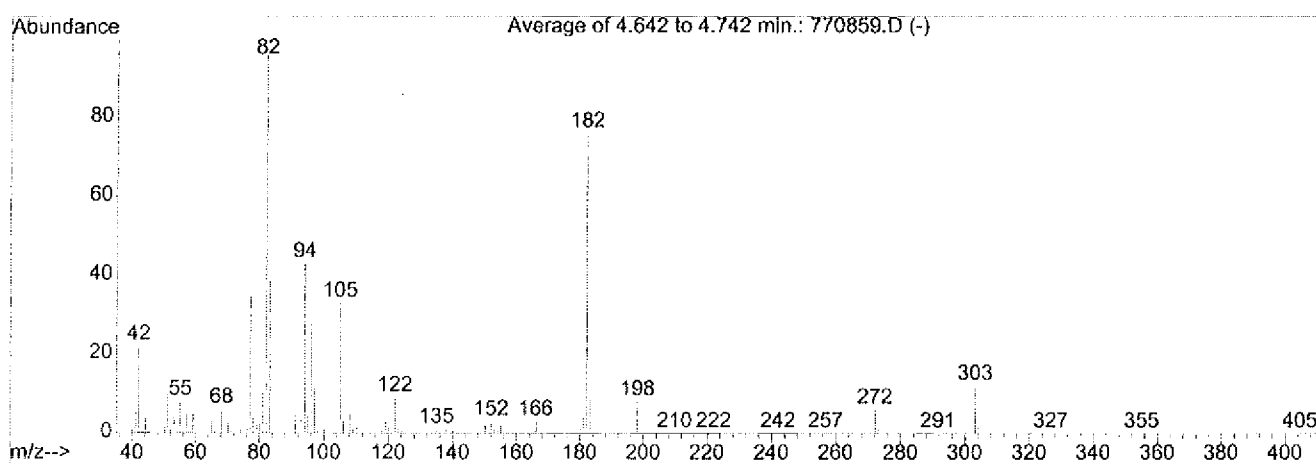
Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770859.D
 Operator : SLD
 Date Acquired : 9 Feb 2011 23:26
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 59
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

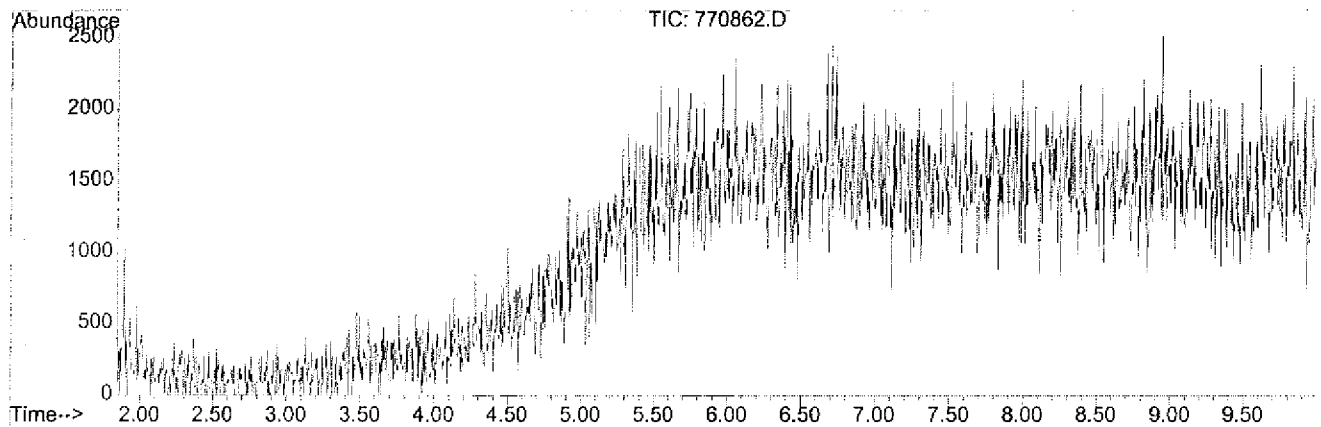
PK#	RT	Library/ID	CAS#	Qual
3	4.67	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770862.D
Operator : SLD
Date Acquired : 10 Feb 2011 00:07
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



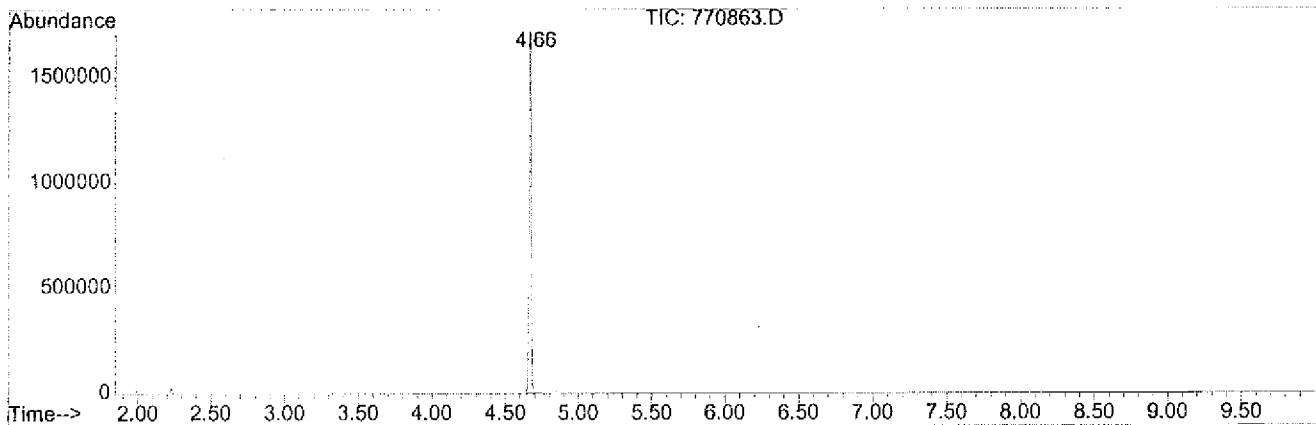
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770863.D
 Operator : SLD
 Date Acquired : 10 Feb 2011 00:21
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 51
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.663	1728398	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

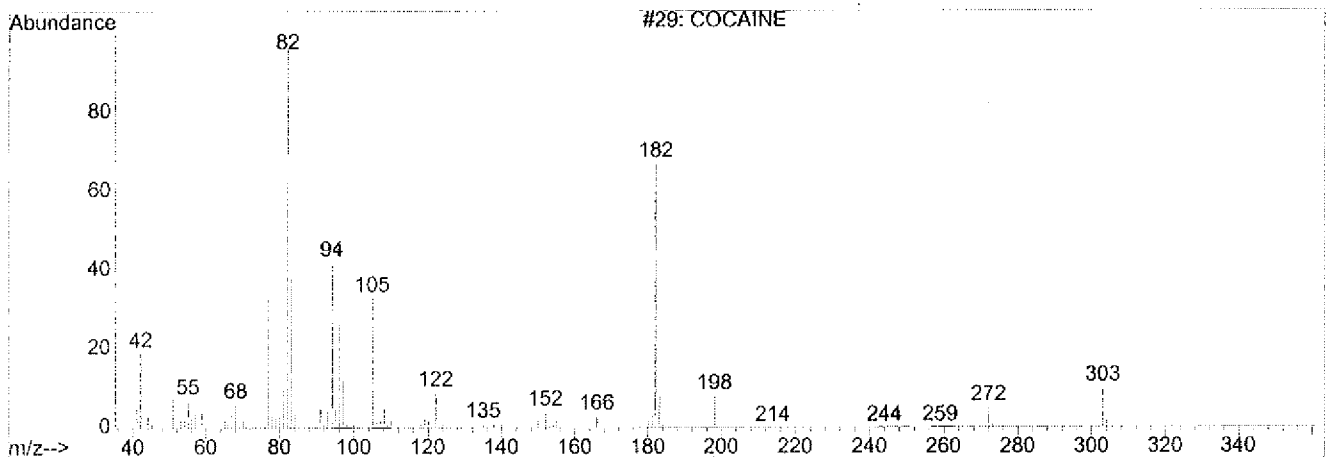
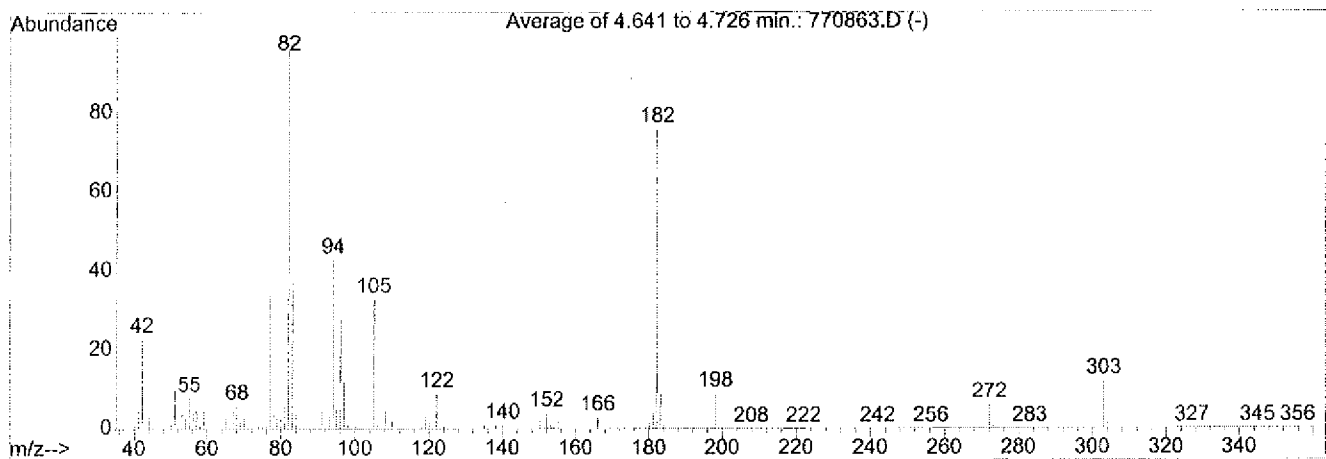
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File Name       : D:\SYSTEM4\02_09_11\770863.D
Operator        : SLD
Date Acquired   : 10 Feb 2011  00:21
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 51
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

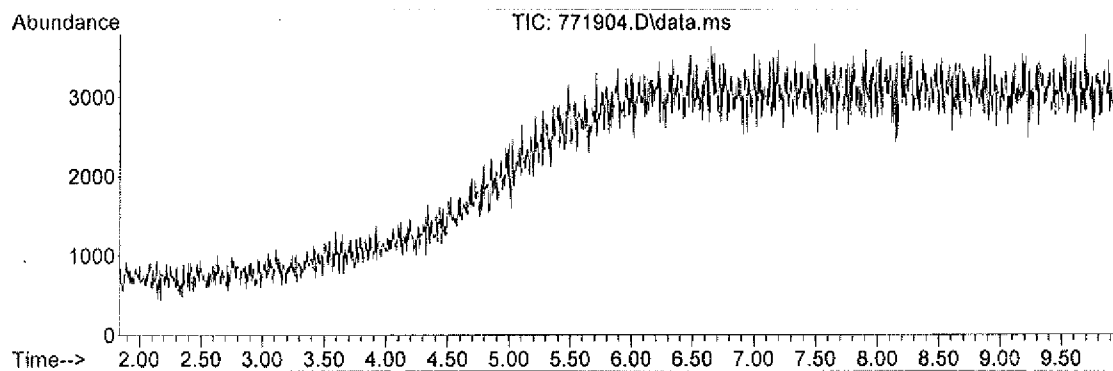
PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



✓KMC
1/25/12

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771904.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:25
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

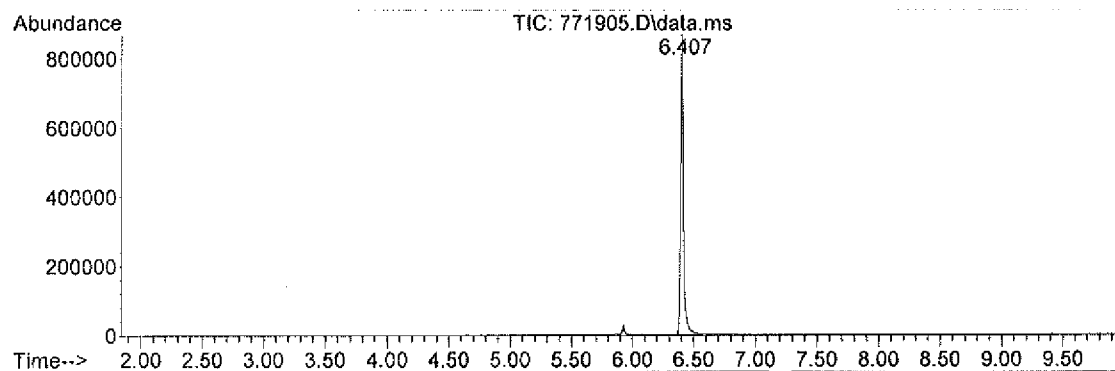


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771905.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:38
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE



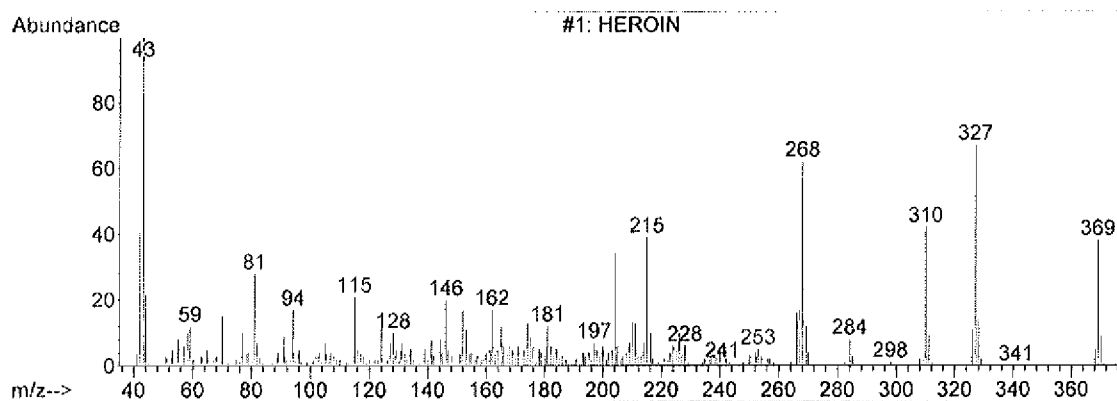
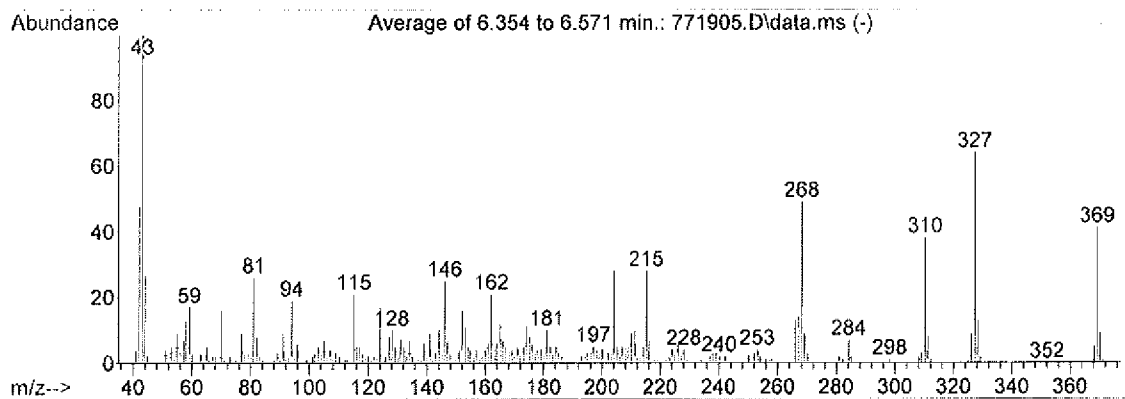
Ret. Time	Area	Area %	Ratio %
6.407	1376028	100.00	100.00

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771905.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:38
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

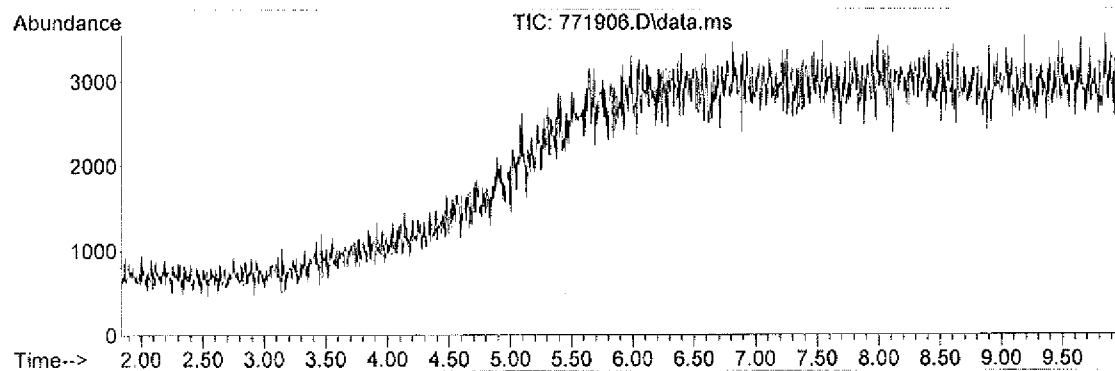
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.41	C:\Database\SLI.L HEROIN	000561-27-3	99



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771906.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:51
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

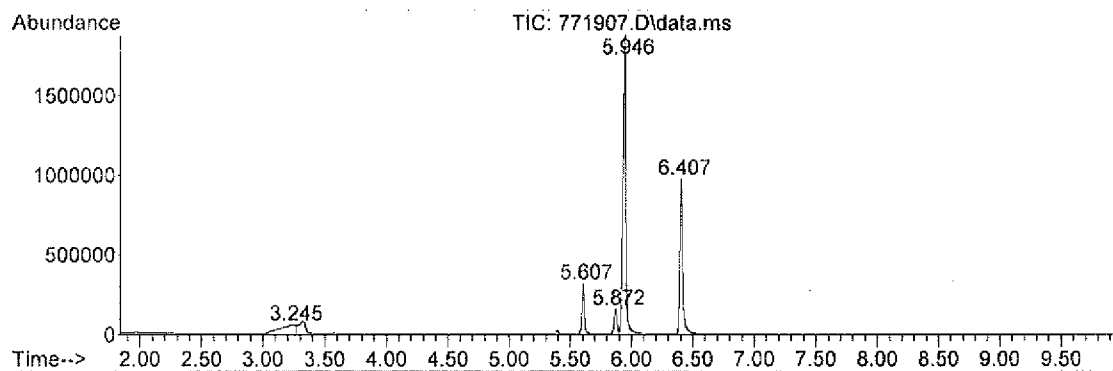


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE



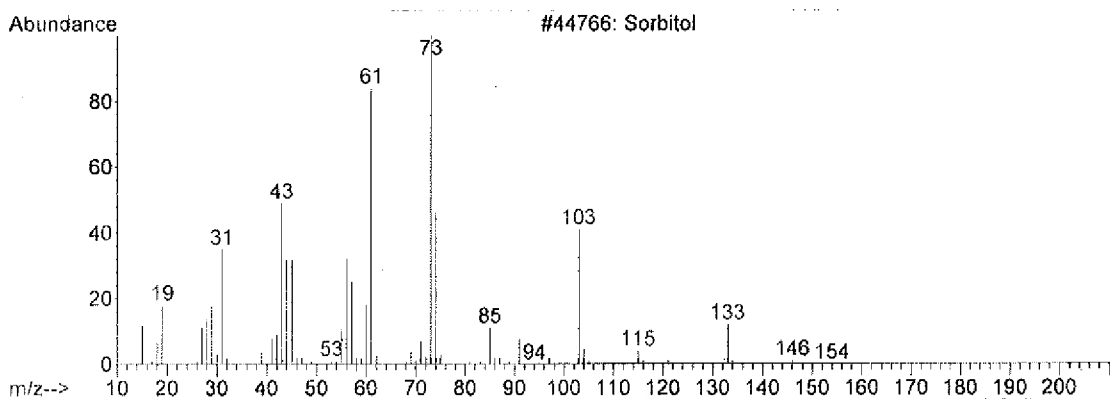
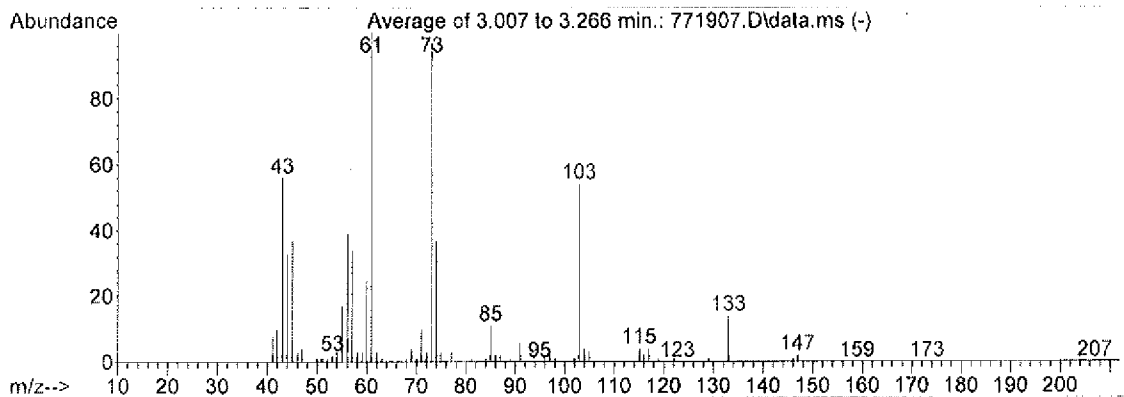
Ret. Time	Area	Area %	Ratio %
3.245	512102	8.71	16.45
5.607	440354	7.49	14.15
5.872	247462	4.21	7.95
5.946	3112744	52.91	100.00
6.407	1570135	26.69	50.44

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.25	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	86
		Sorbitol	000050-70-4	80

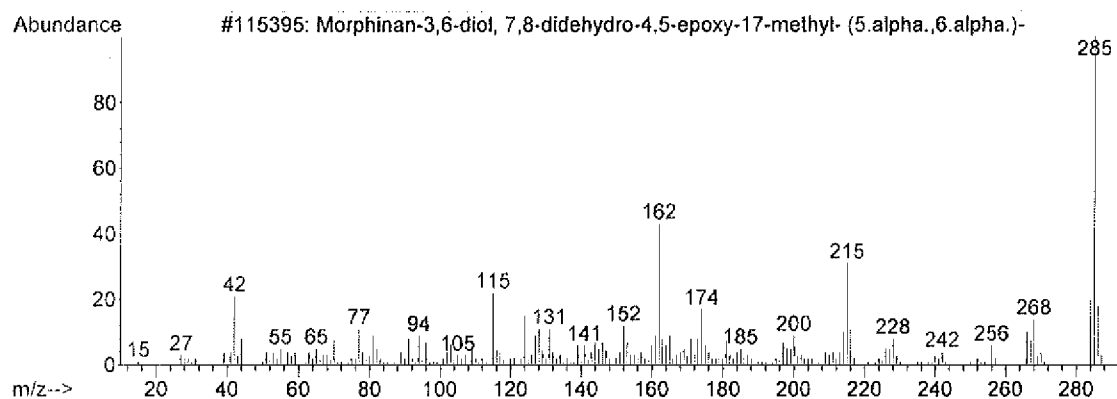
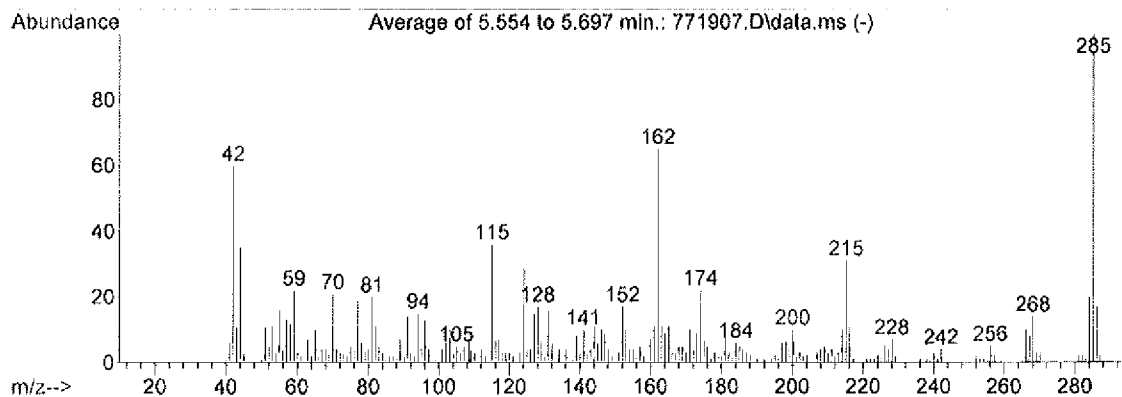


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

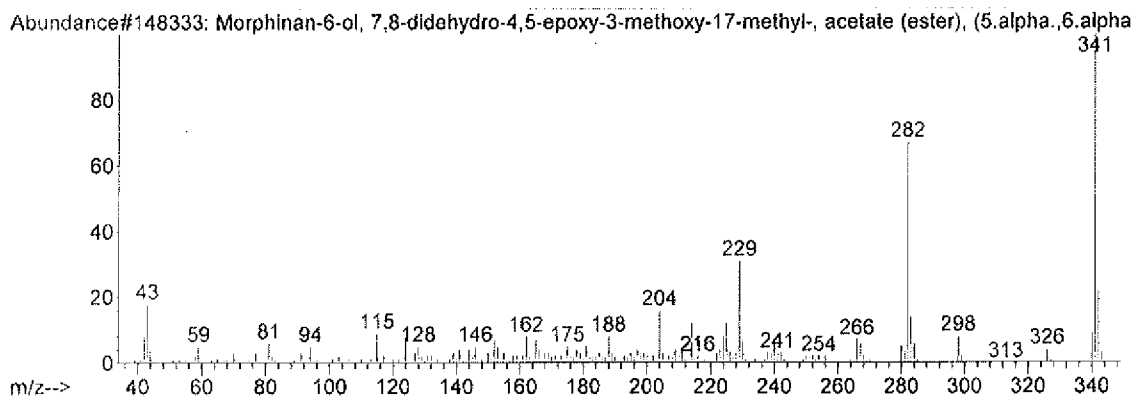
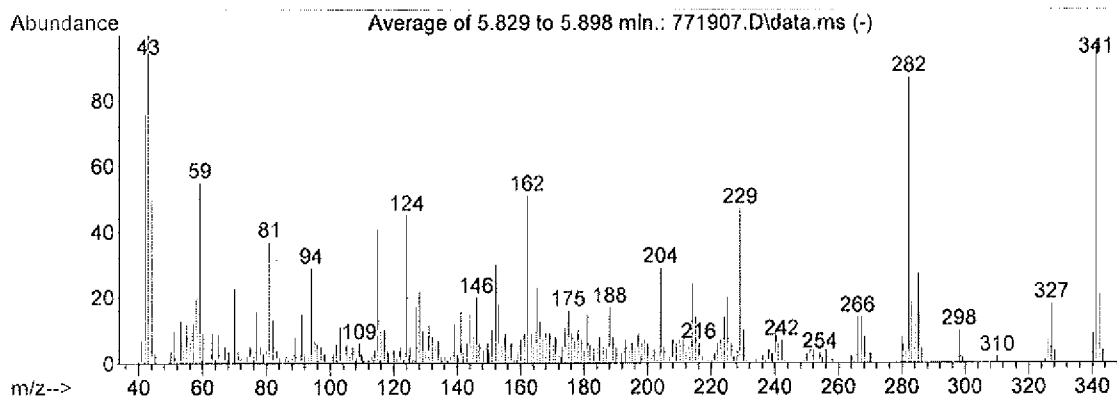


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	97
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	97
		Morphin, 3-acetyl-	1000153-00-1	92

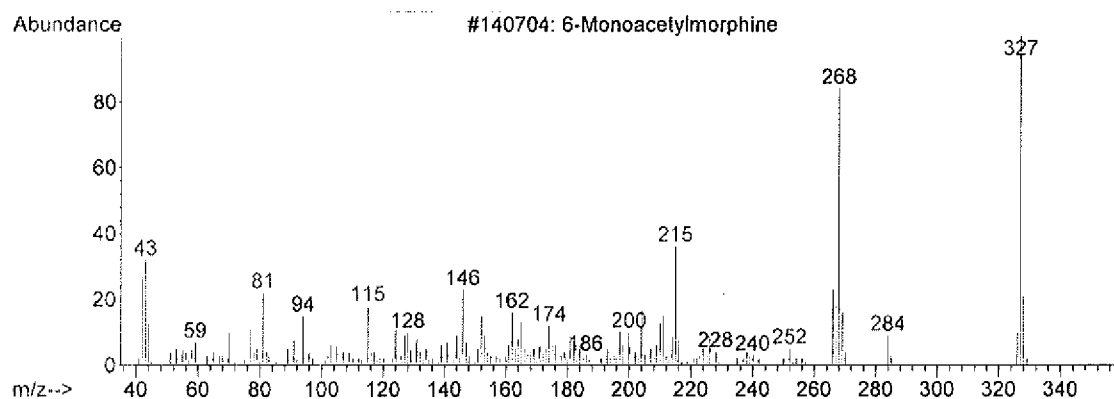
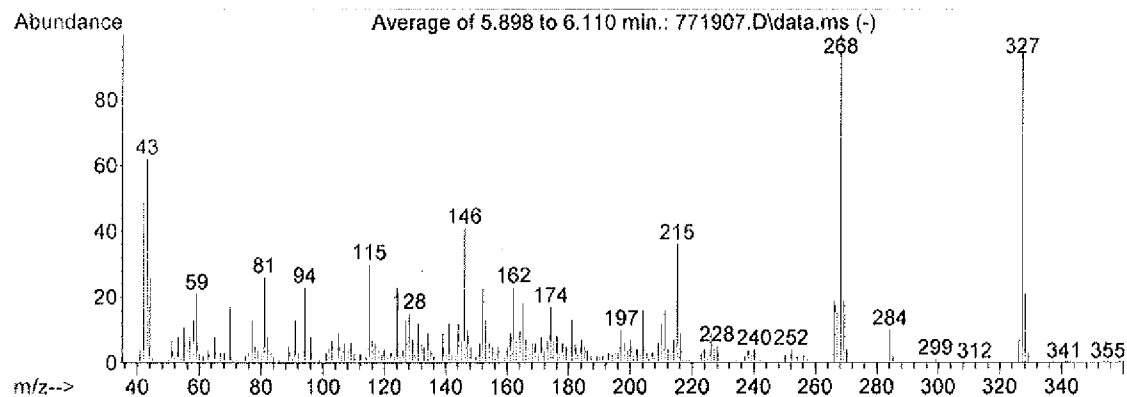


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

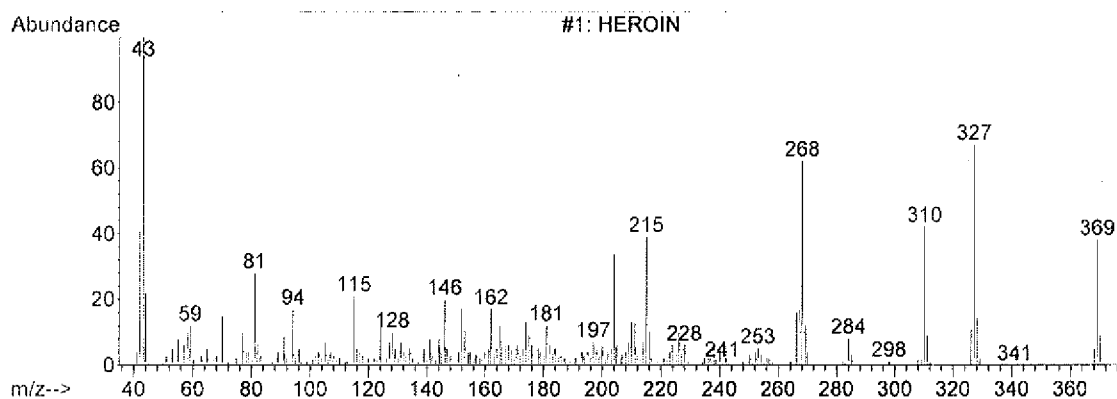
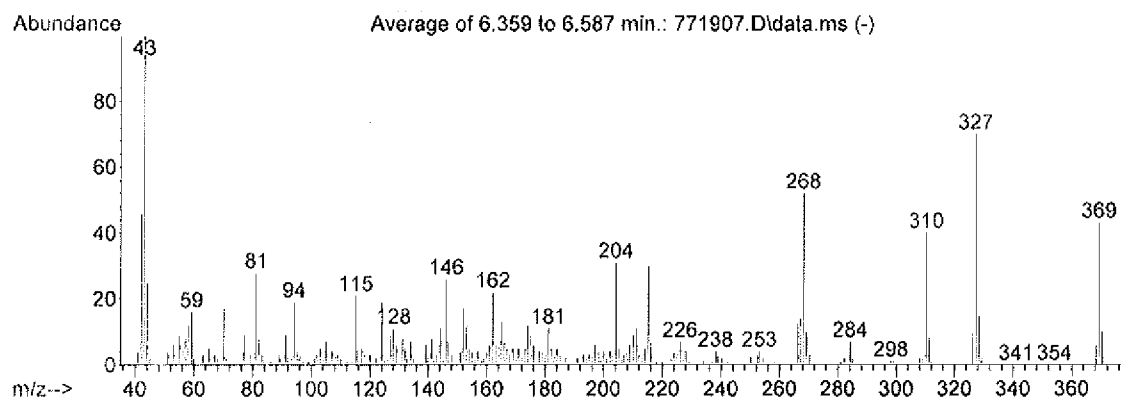


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

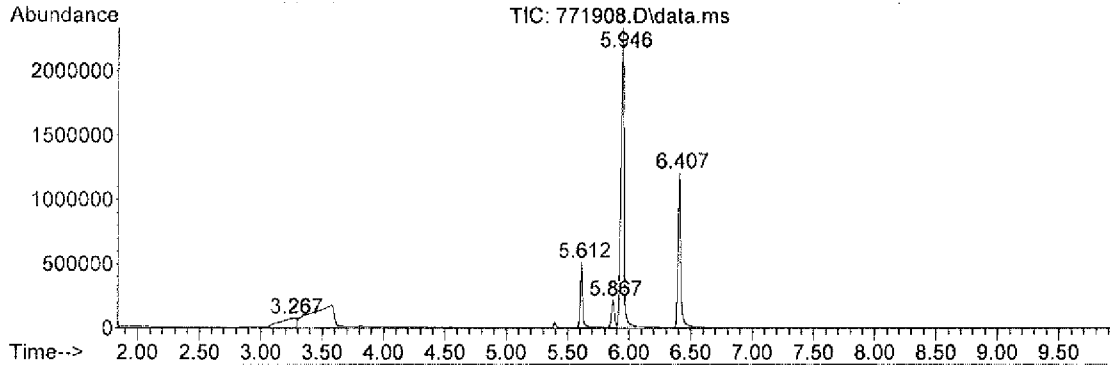
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L HEROIN	000561-27-3	99



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE



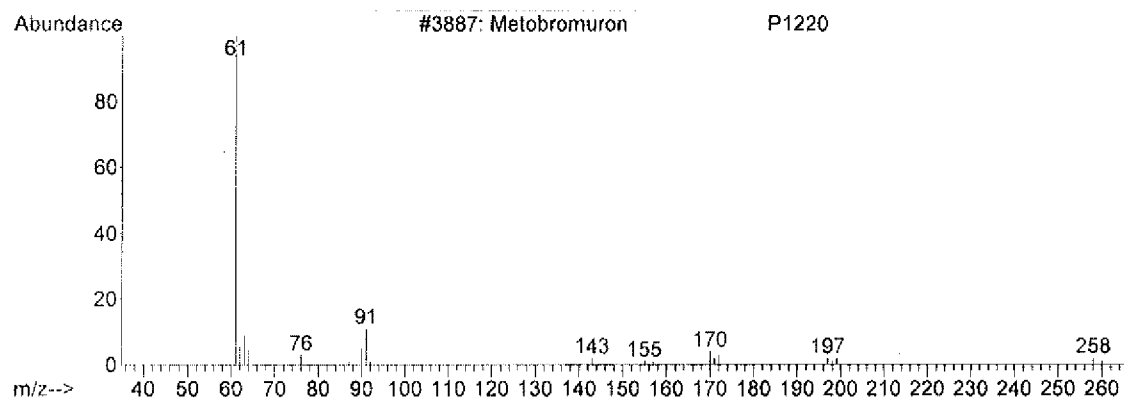
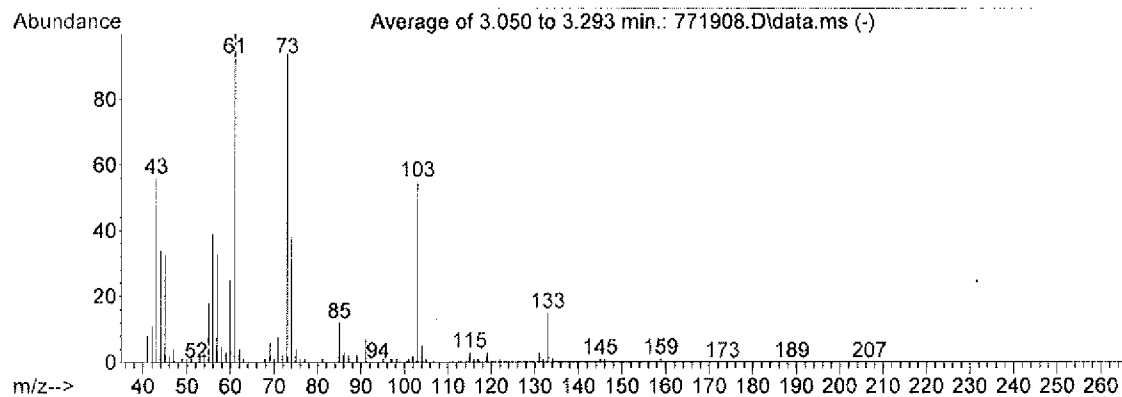
Ret. Time	Area	Area %	Ratio %
3.267	629037	8.12	15.08
5.612	699390	9.03	16.76
5.867	334629	4.32	8.02
5.946	4172296	53.88	100.00
6.407	1908470	24.65	45.74

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.27	C:\Database\PMW_TOX2.L		
		Metobromuron	003060-89-7	4
		Myristic acid	000544-63-8	2
		Monolinuron	001746-81-2	2

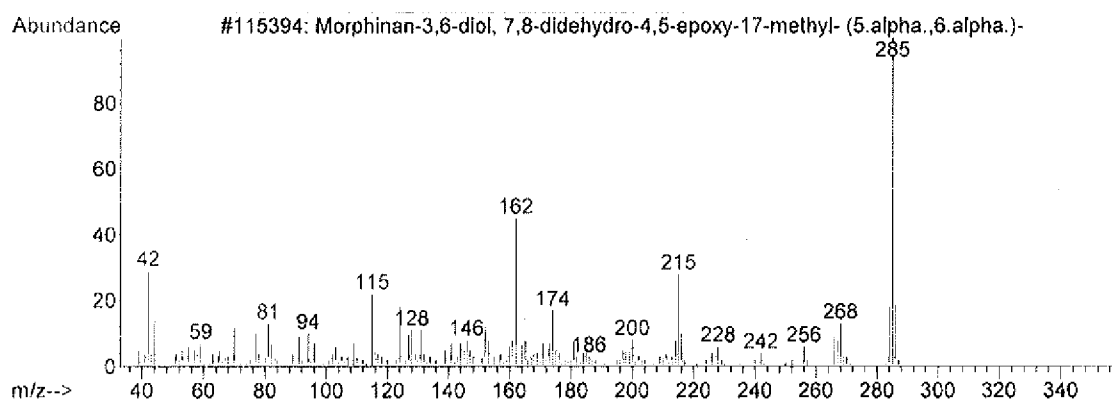
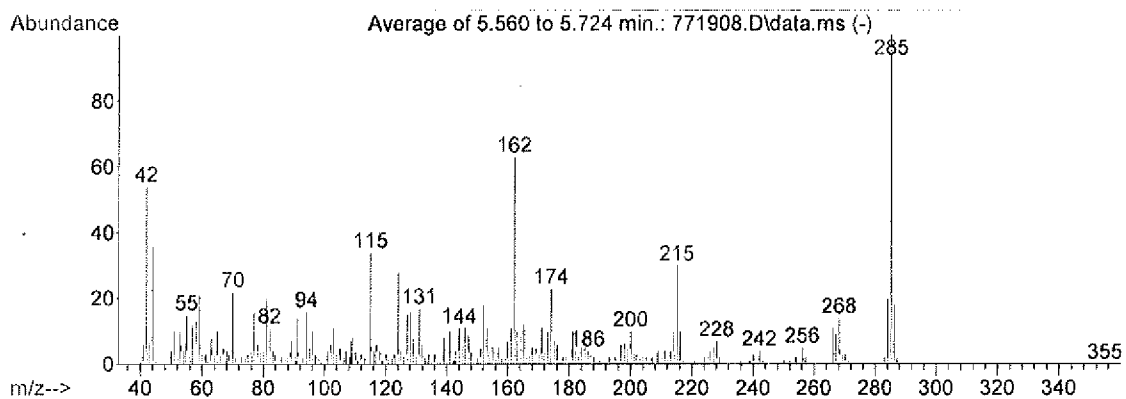


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

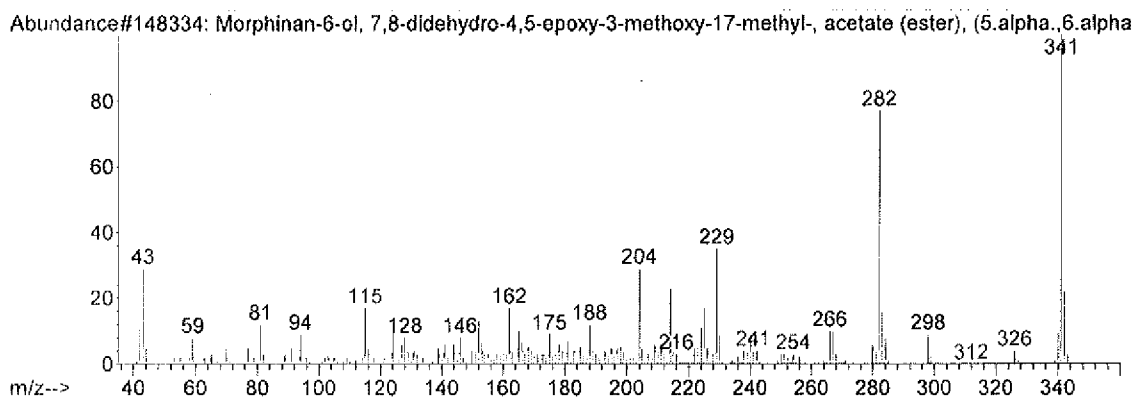
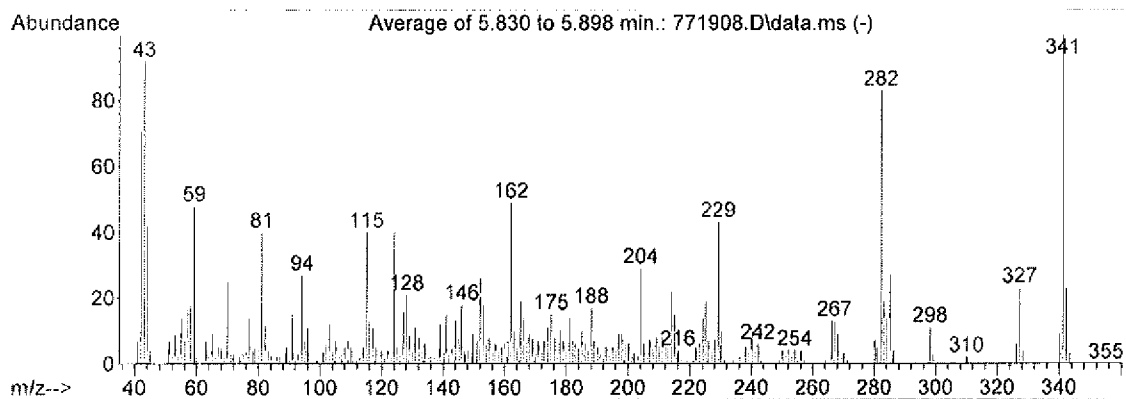


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	98

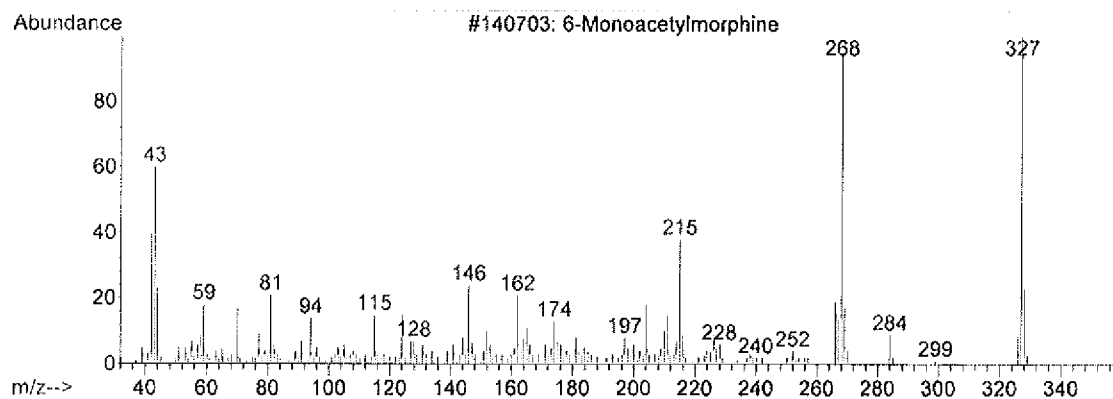
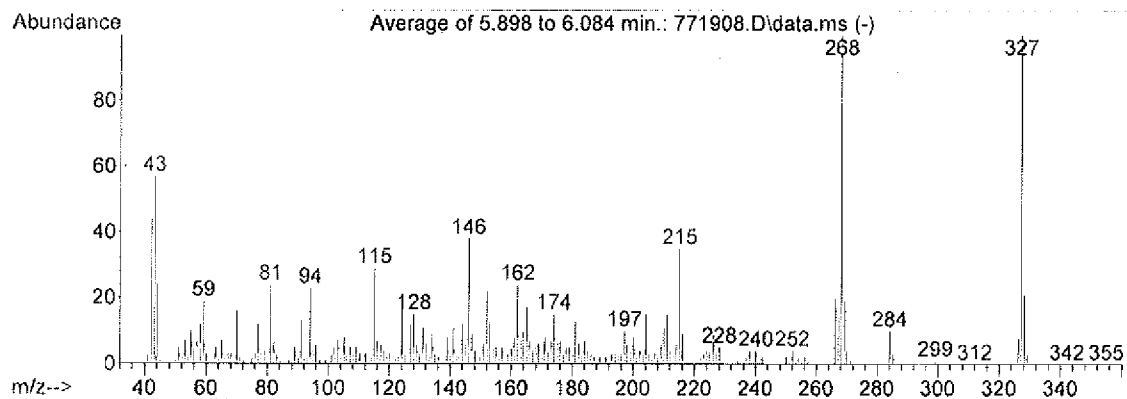


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

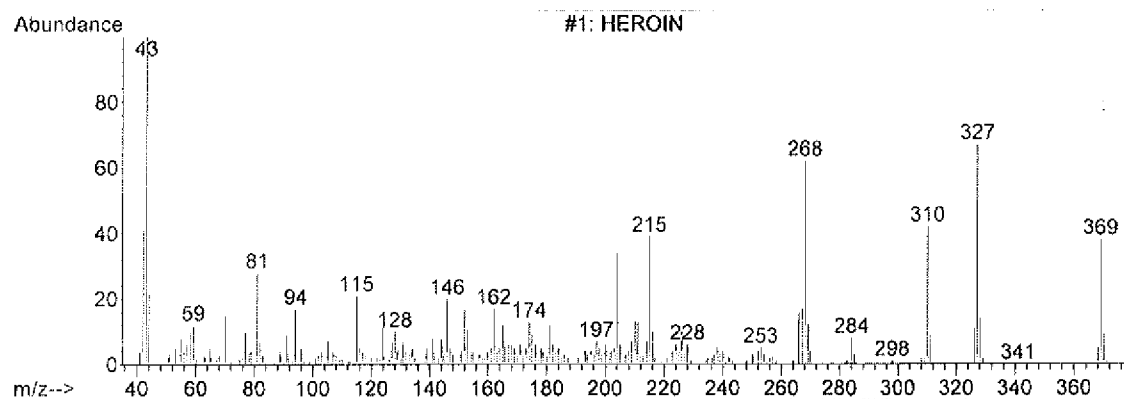
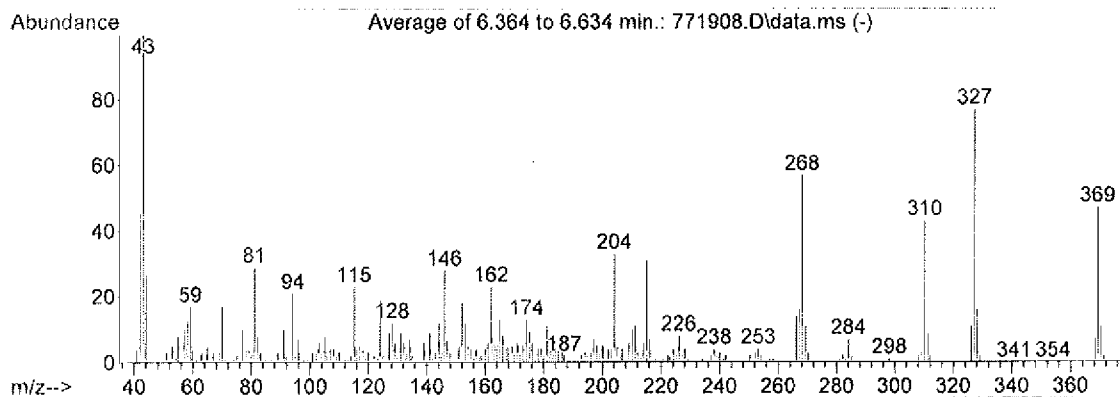


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

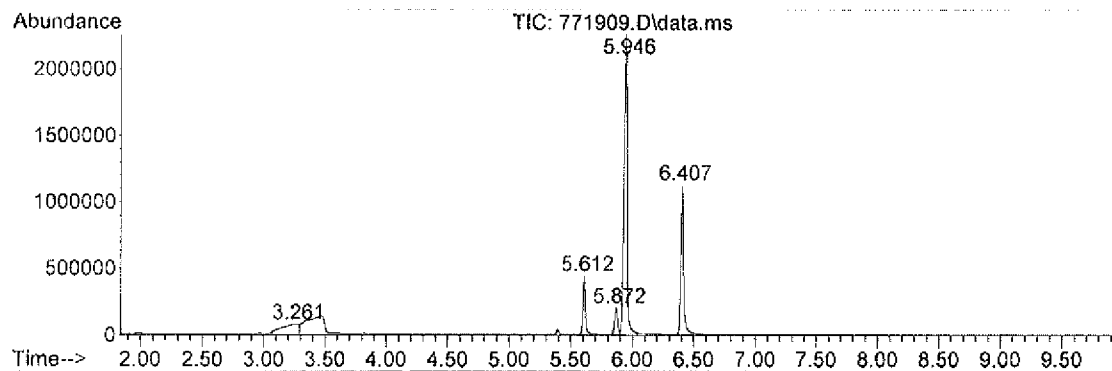
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE



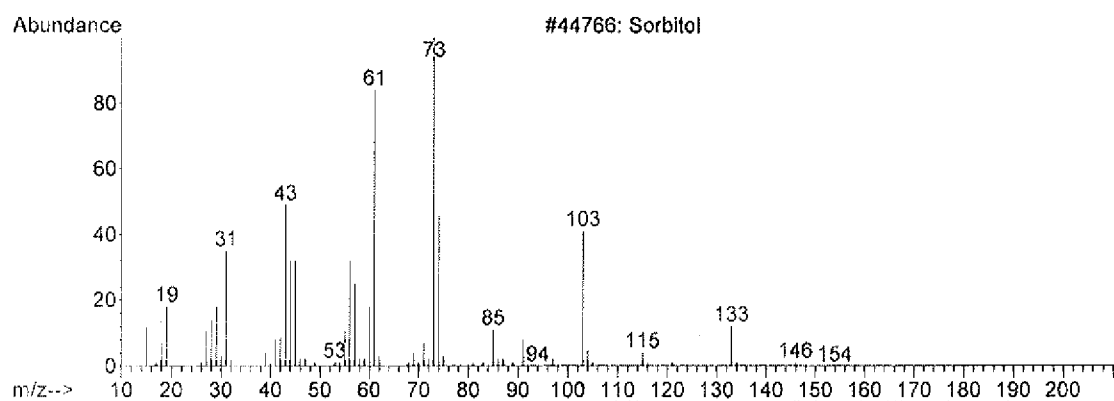
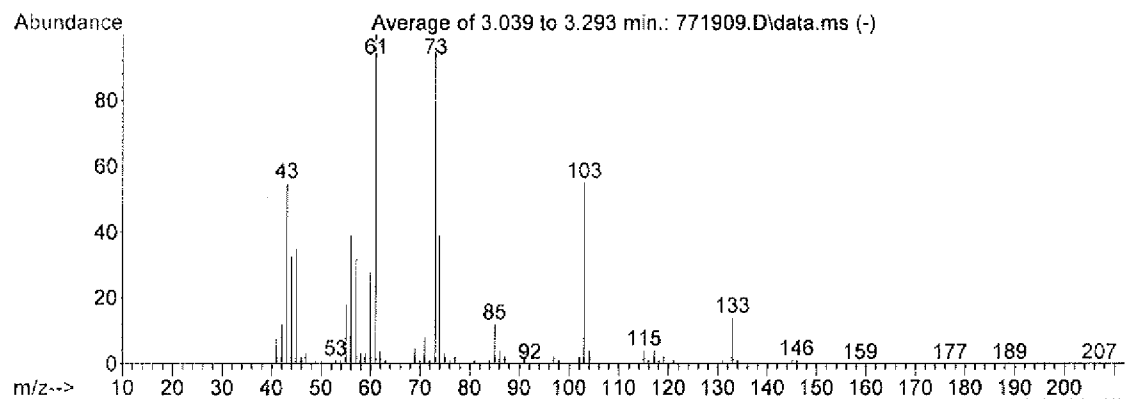
Ret. Time	Area	Area %	Ratio %
3.261	724023	9.61	18.01
5.613	634422	8.42	15.78
5.872	325760	4.32	8.10
5.946	4020959	53.36	100.00
6.407	1830160	24.29	45.52

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.26	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		D-Mannitol	000069-65-8	78
		Sorbitol	000050-70-4	64

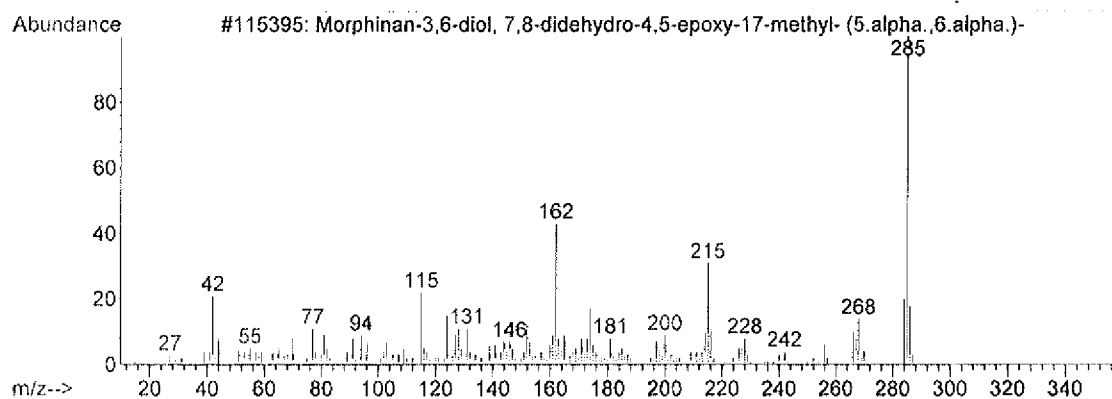
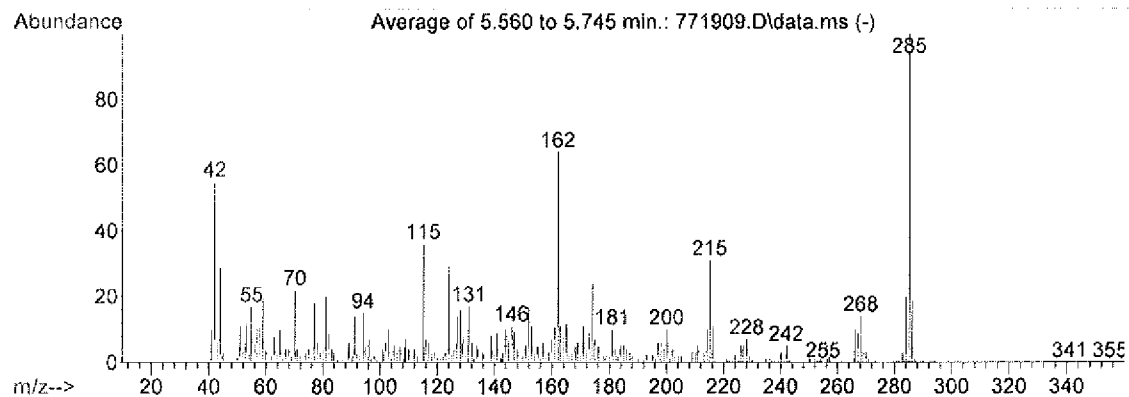


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

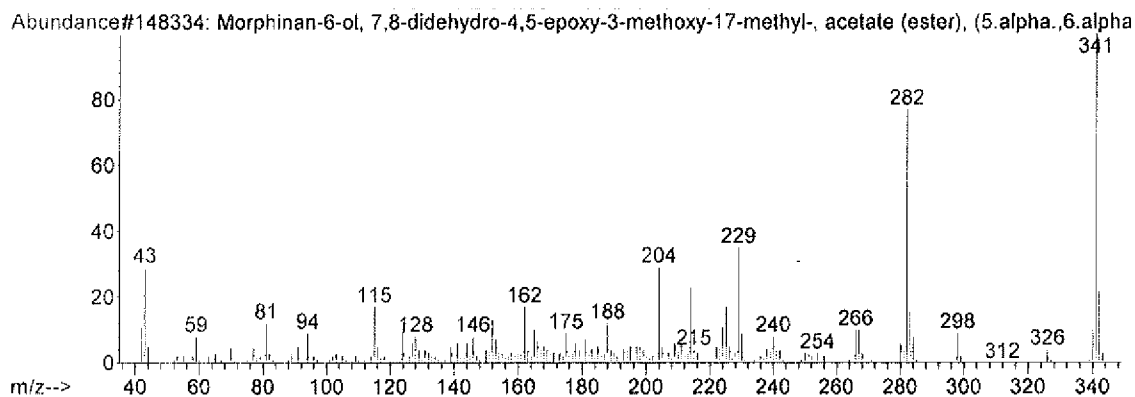
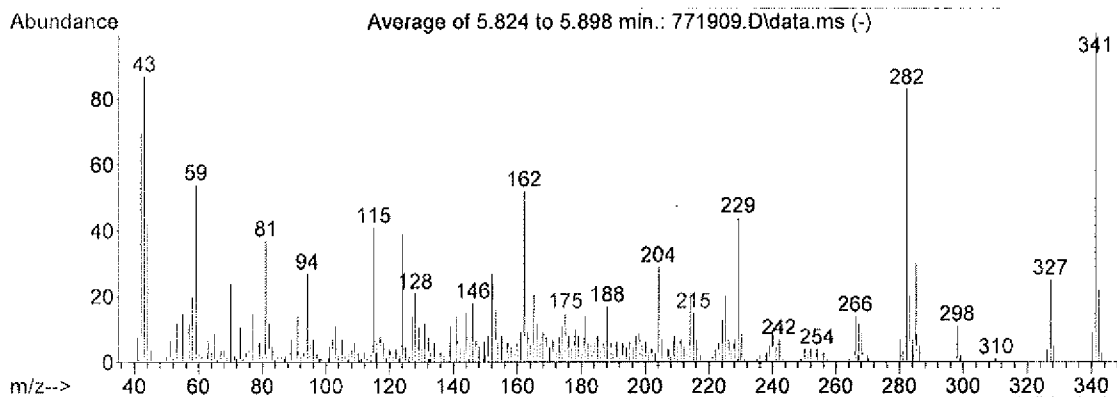


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	95

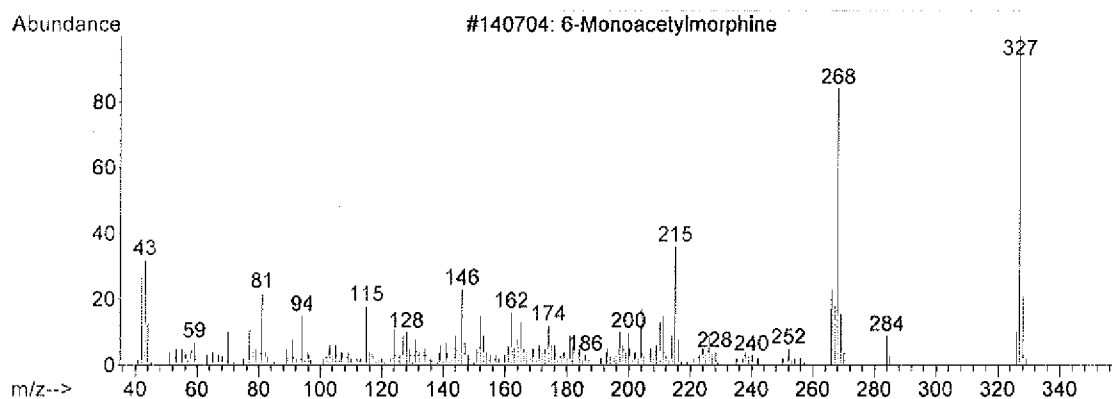
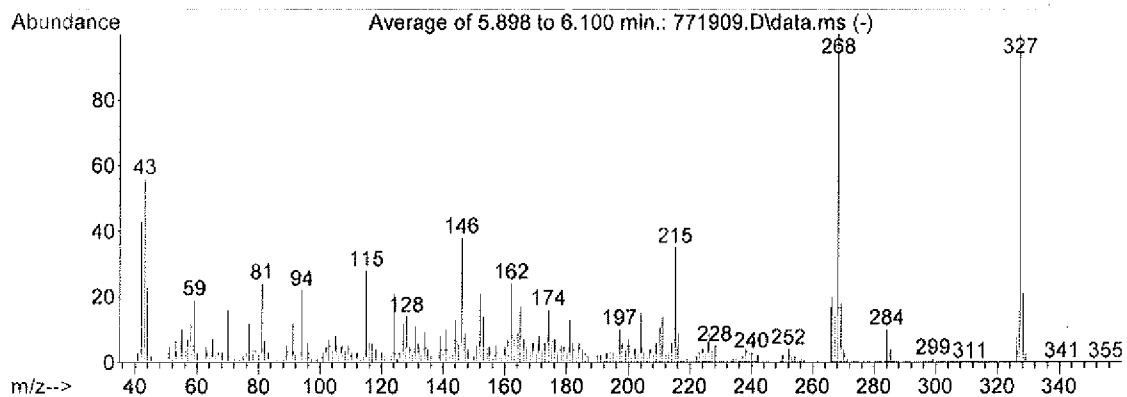


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

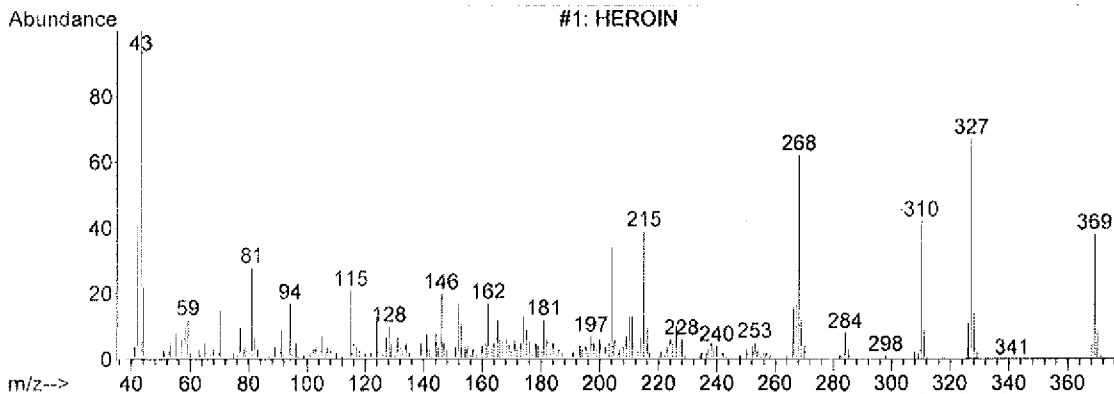
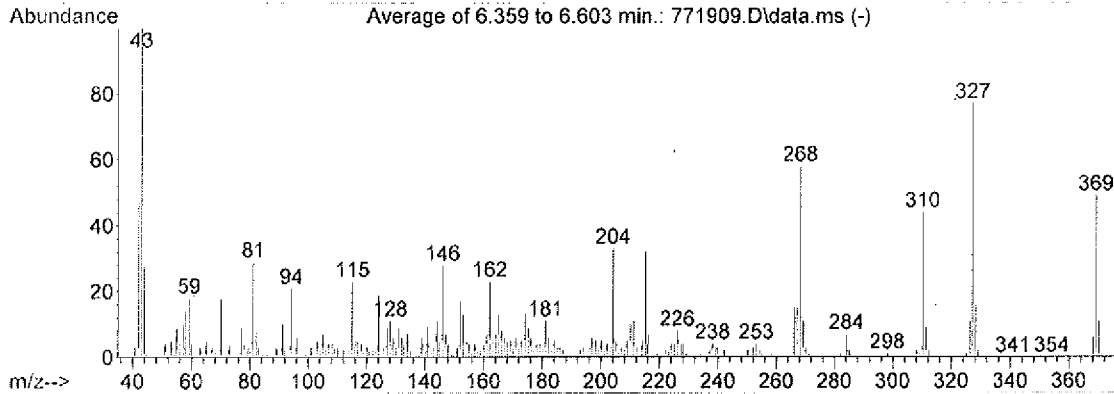


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

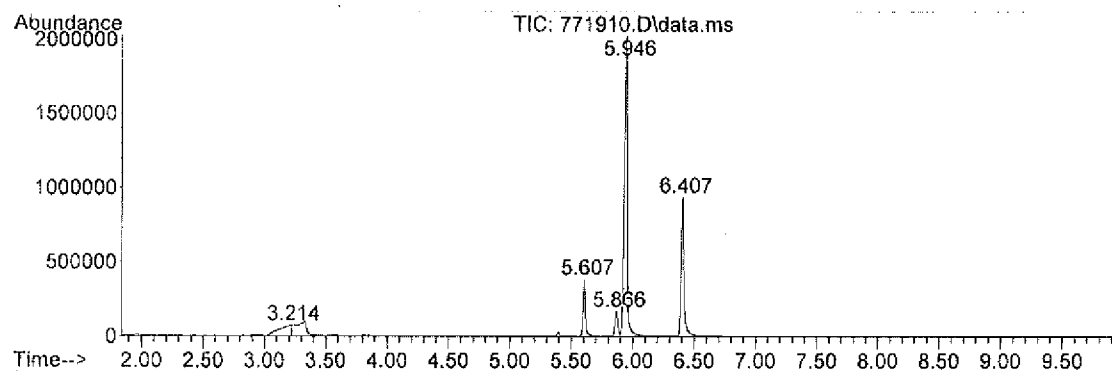
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE



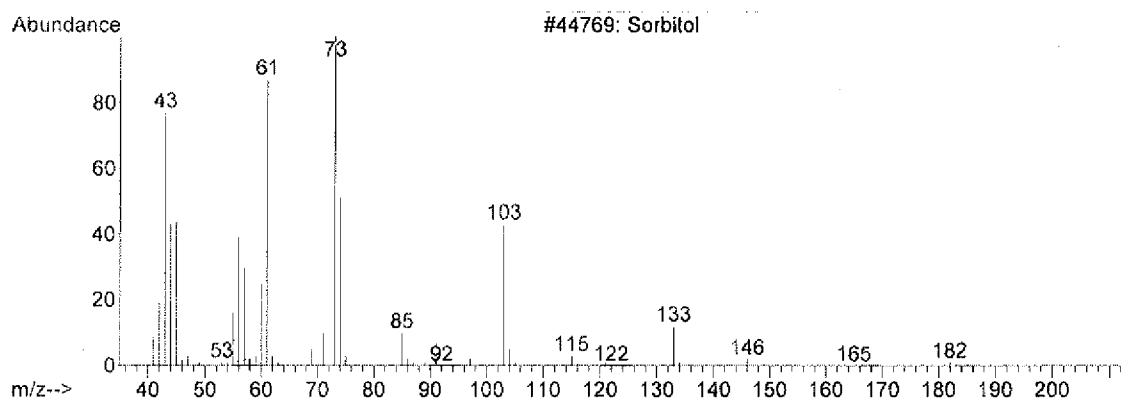
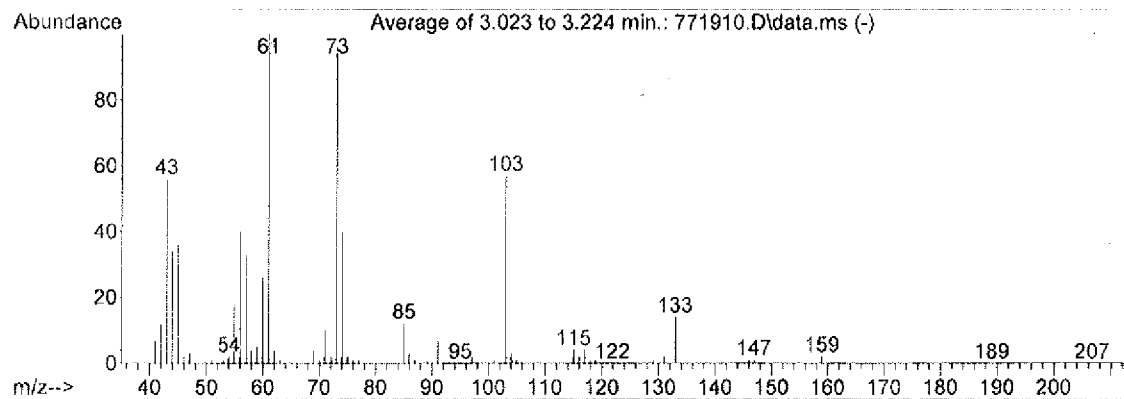
Ret. Time	Area	Area %	Ratio %
3.214	497068	7.96	14.52
5.607	526511	8.43	15.38
5.866	266490	4.27	7.79
5.946	3422257	54.80	100.00
6.407	1532774	24.54	44.79

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.21	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	80
		Sorbitol	000050-70-4	72
		Sorbitol	000050-70-4	72

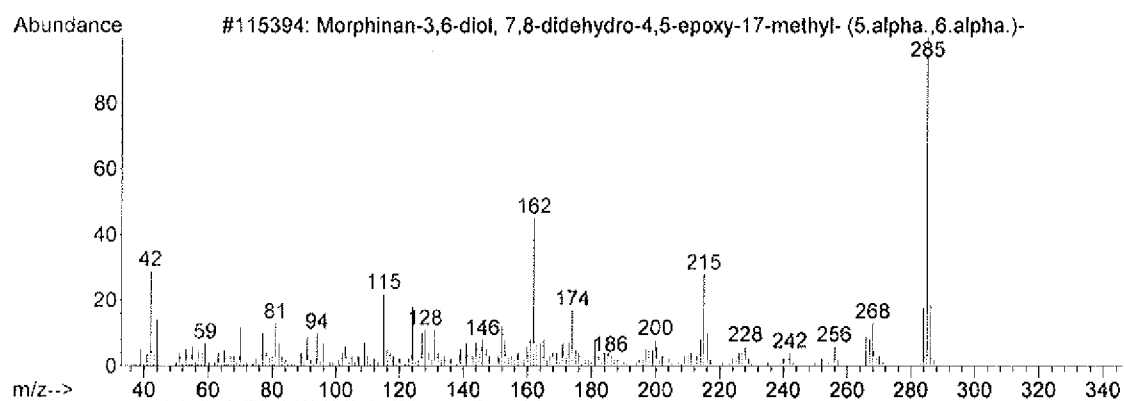
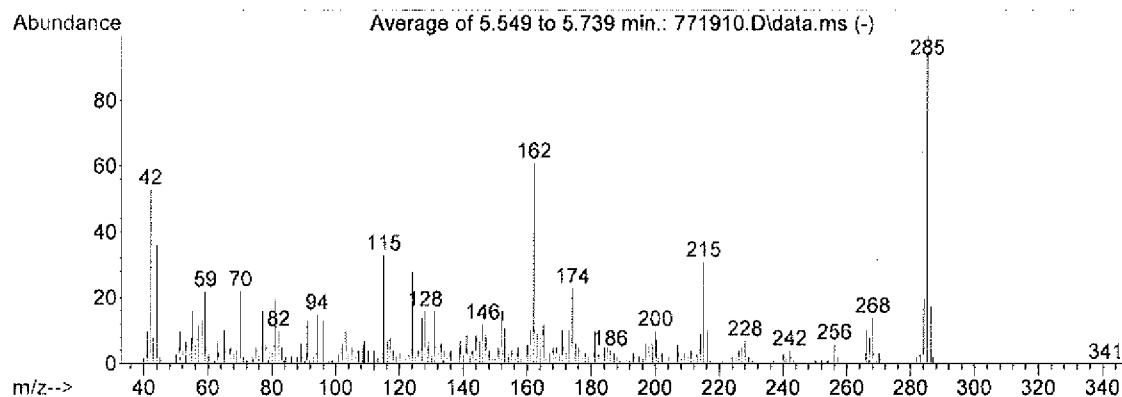


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

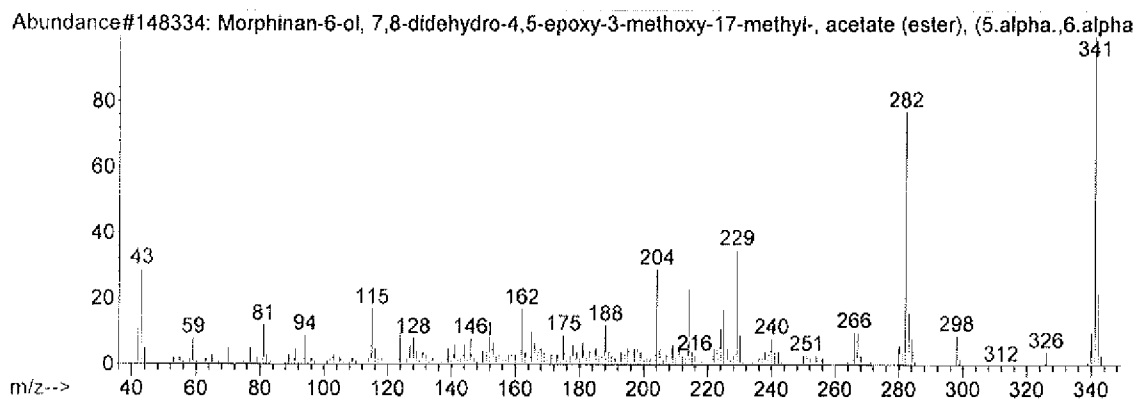
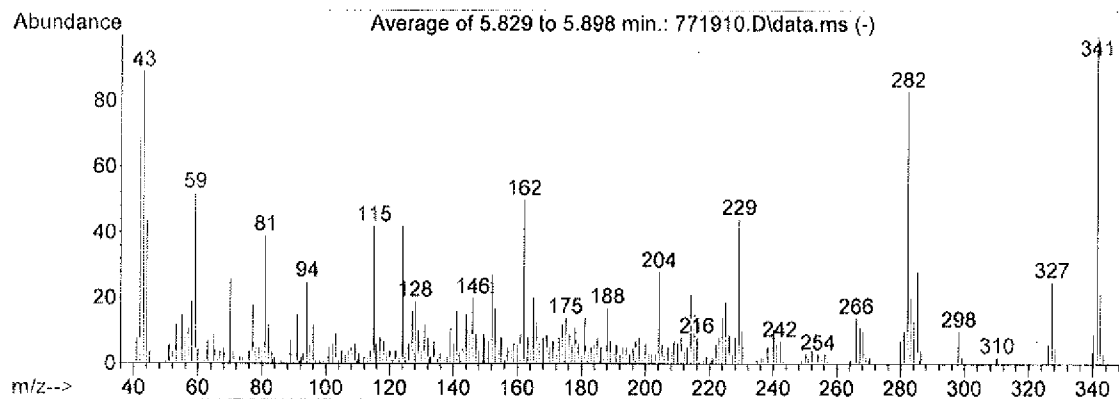


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	95

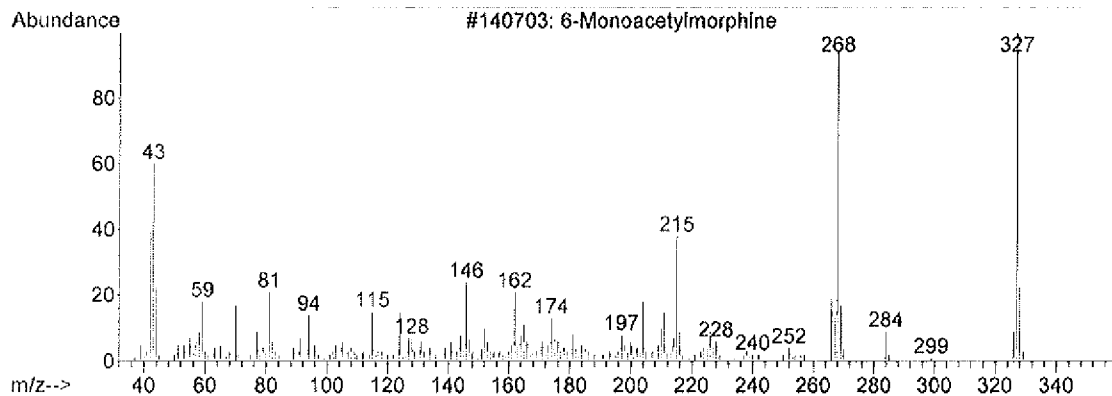
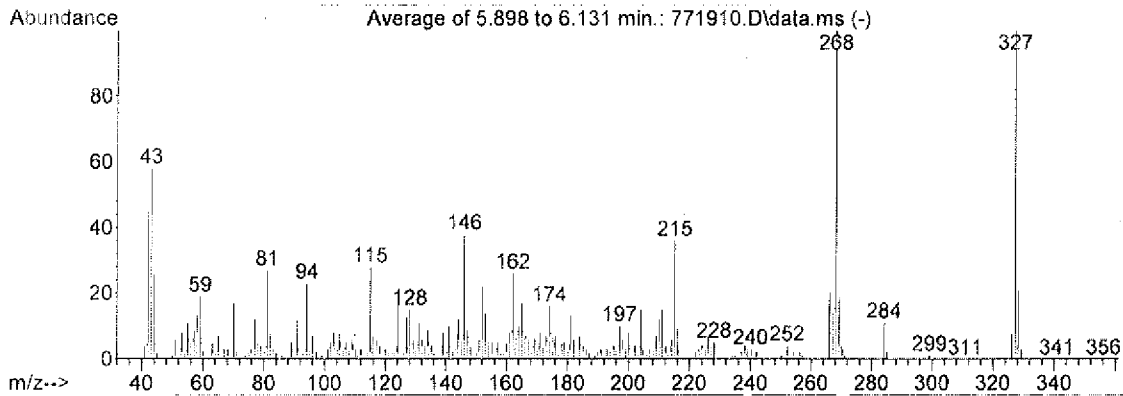


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

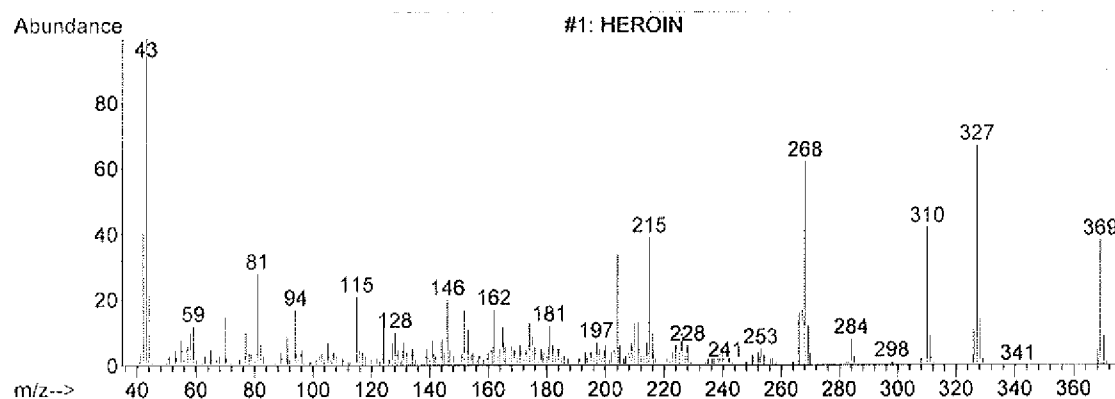
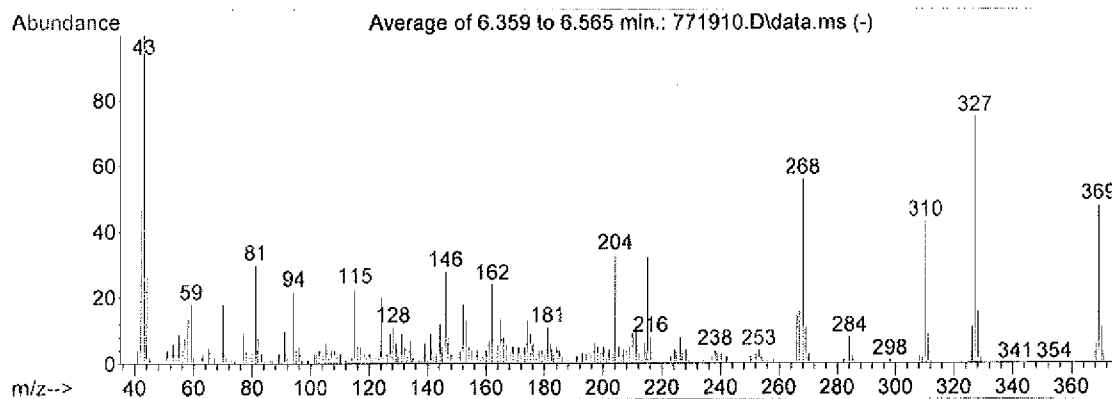


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

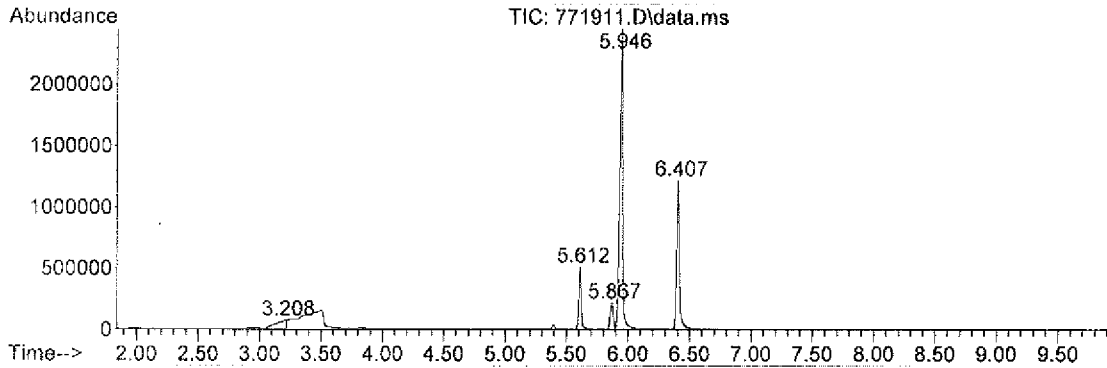
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE



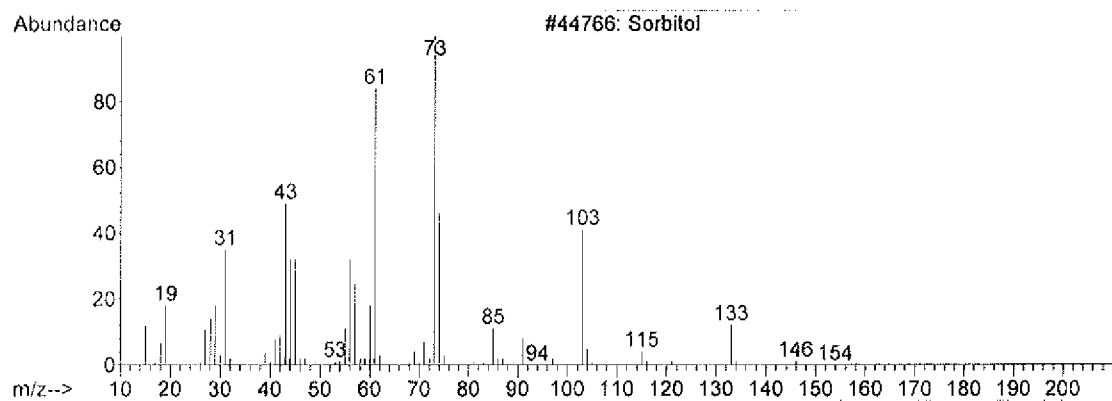
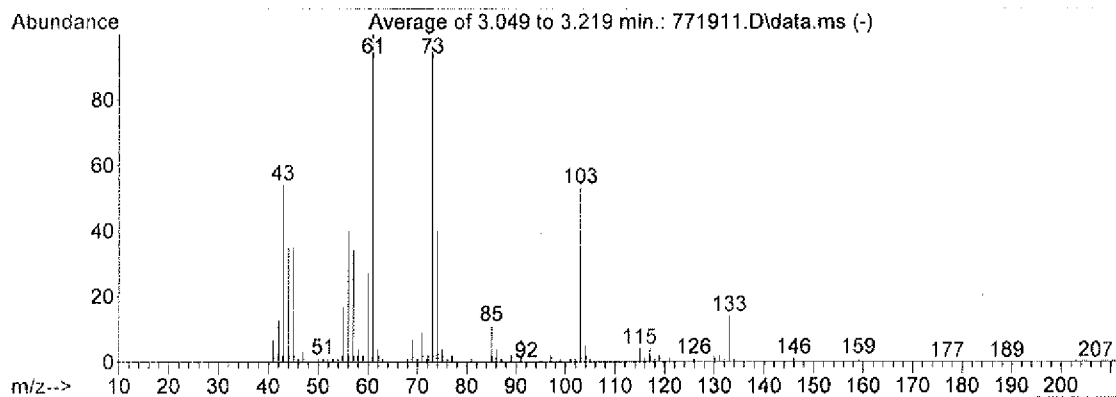
Ret. Time	Area	Area %	Ratio %
3.208	404964	5.32	9.62
5.612	713169	9.37	16.94
5.867	351629	4.62	8.35
5.946	4210108	55.33	100.00
6.407	1928628	25.35	45.81

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.21	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	86
		D-Mannitol	000069-65-8	83



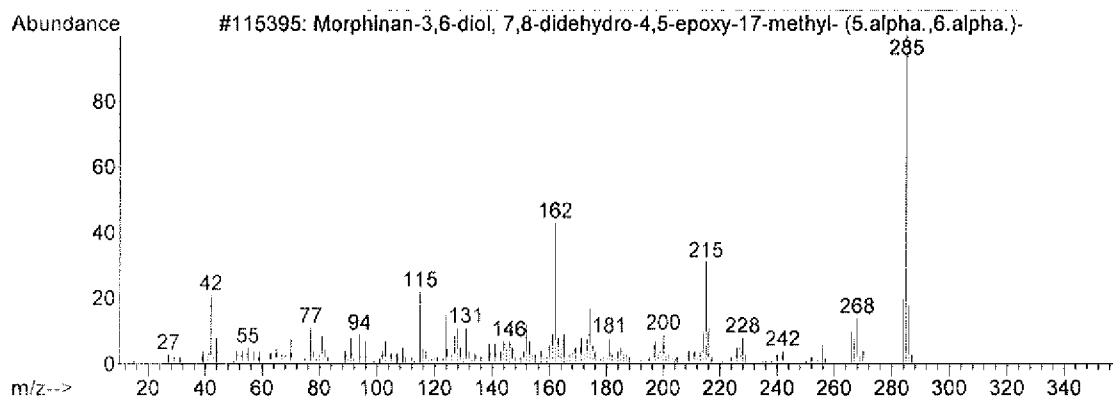
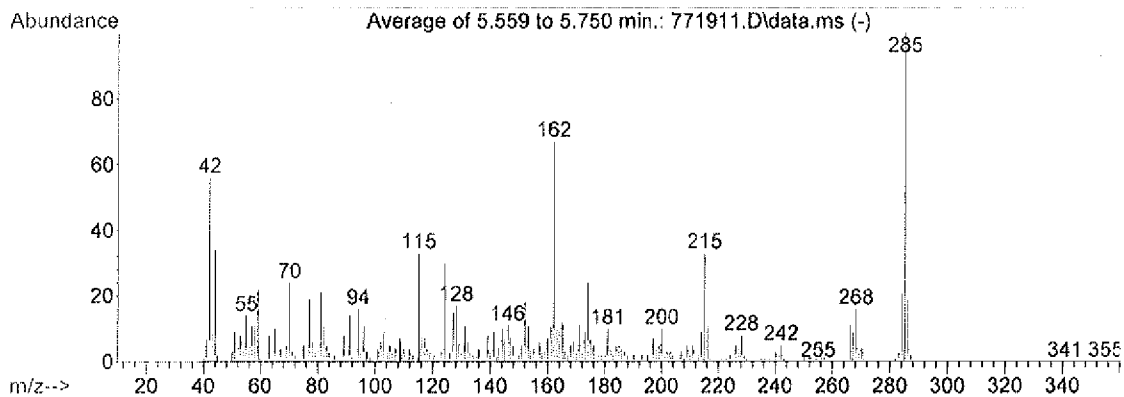
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
 Operator : KAC
 Date Acquired : 15 Feb 2011 10:54
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 11
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

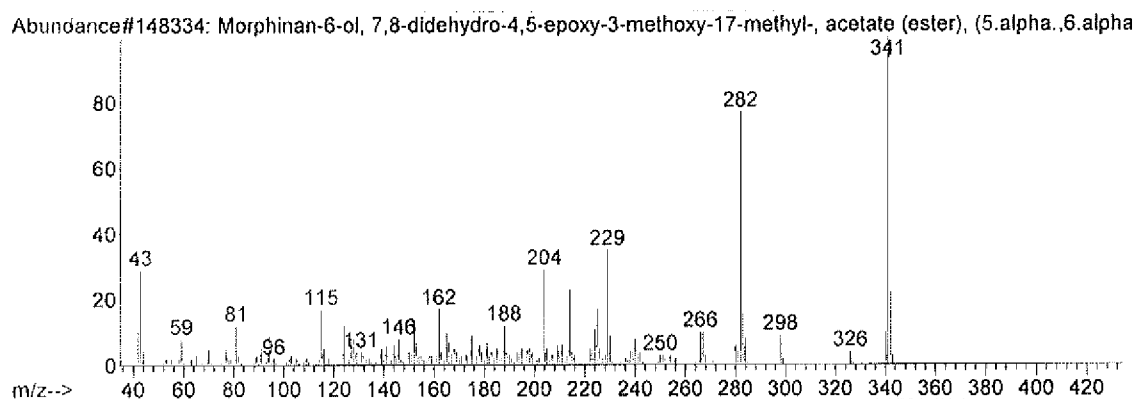
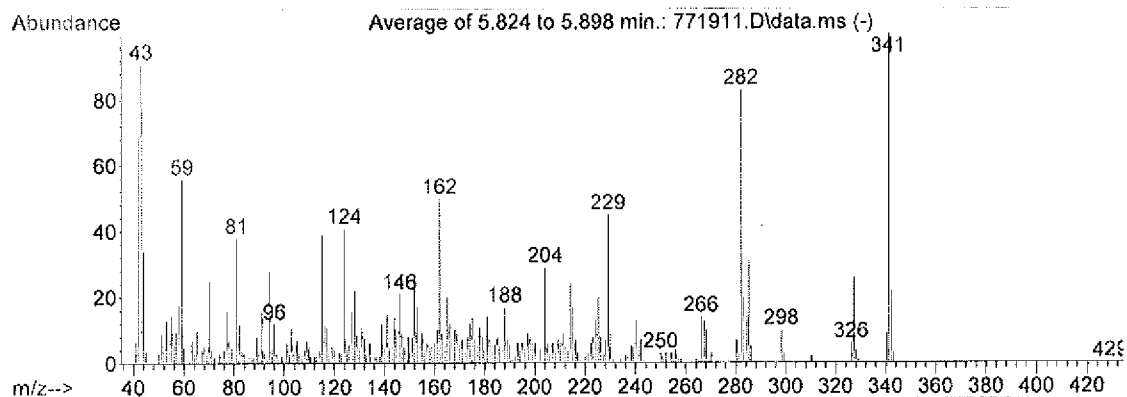


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	96
		Acetylcodein	1000153-00-2	95

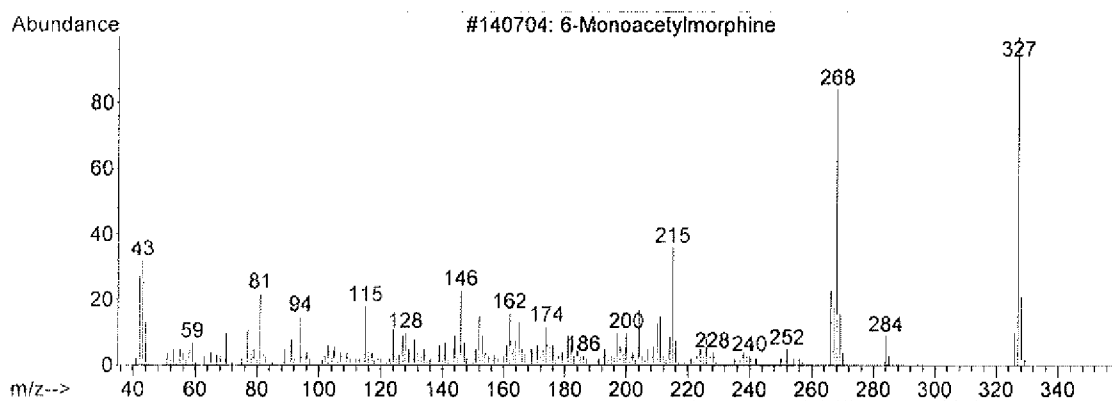
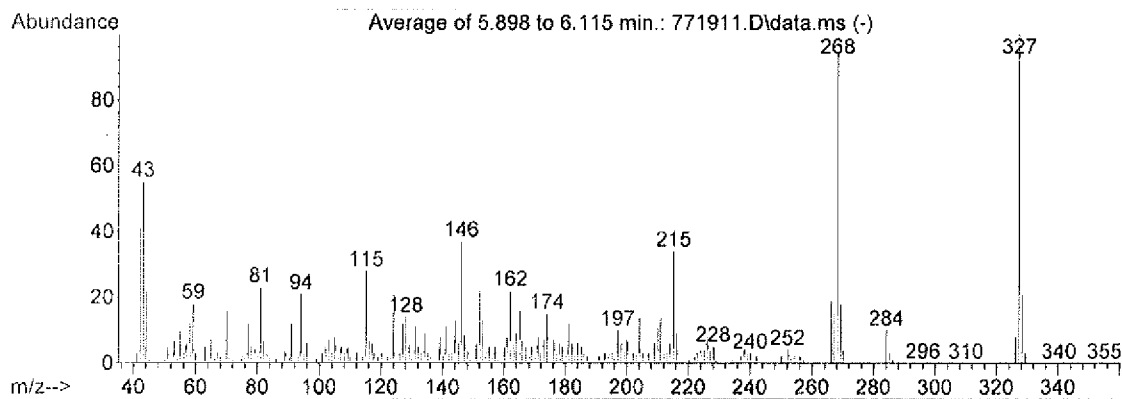


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

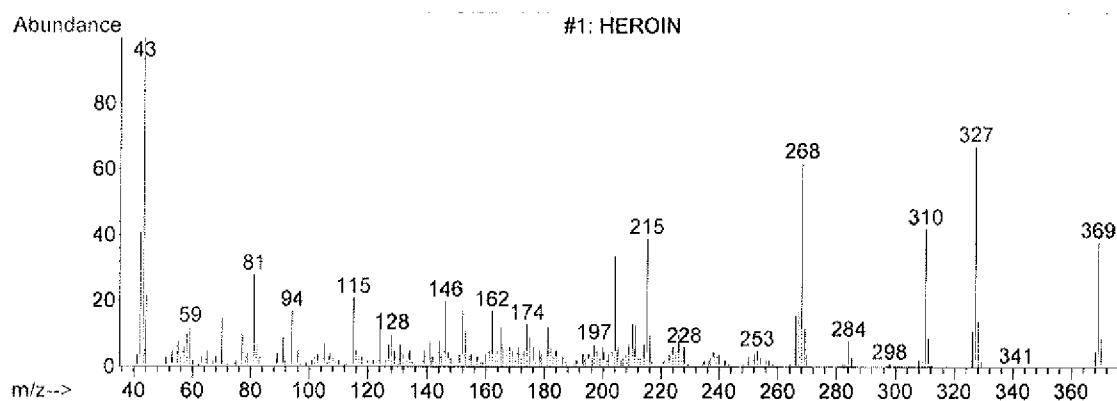
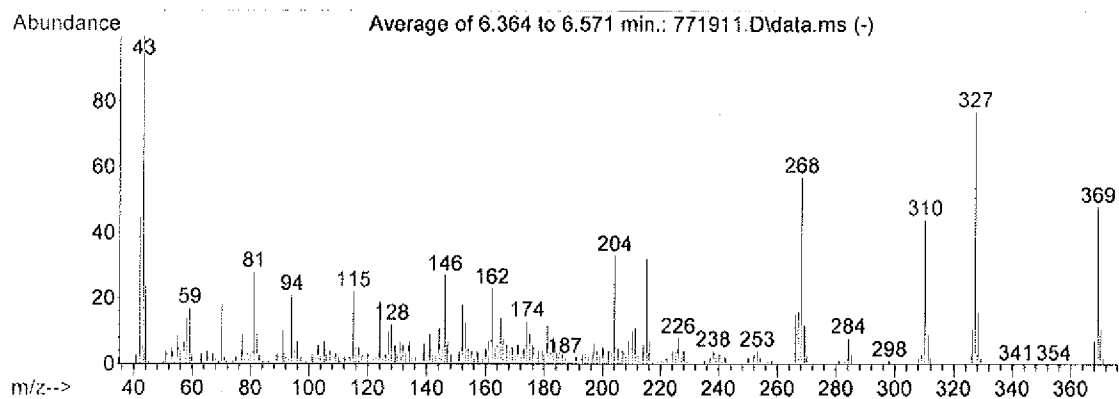


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

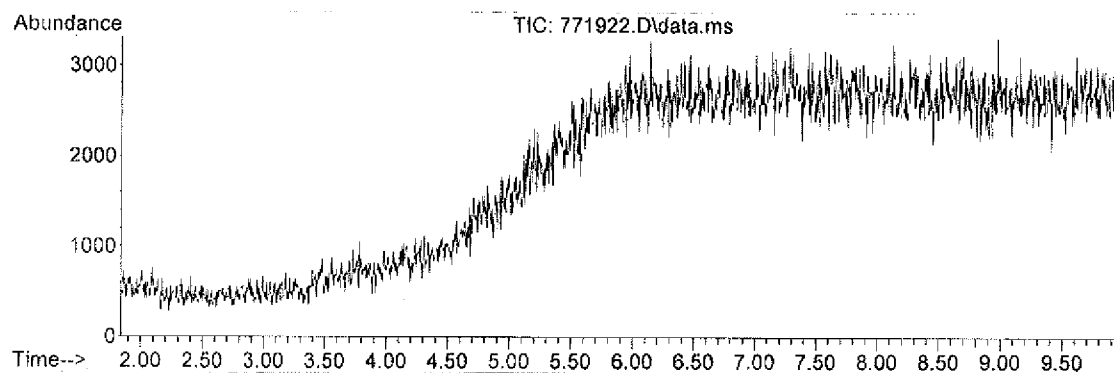
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771922.D
Operator : KAC
Date Acquired : 15 Feb 2011 13:12
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

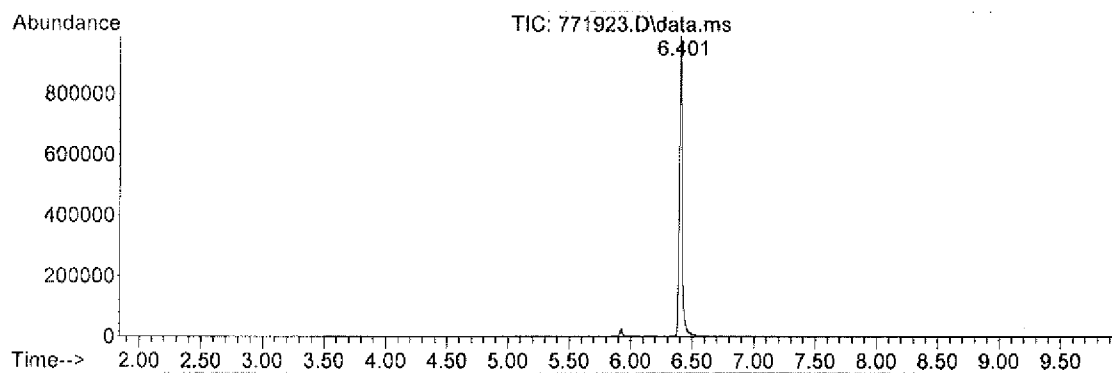


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771923.D
Operator : KAC
Date Acquired : 15 Feb 2011 13:25
Sample Name : HEROIN STD
Submitted by :
Vial Number : 23
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.401	1598308	100.00	100.00

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771923.D
Operator : KAC
Date Acquired : 15 Feb 2011 13:25
Sample Name : HEROIN STD
Submitted by :
Vial Number : 23
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.40	C:\Database\SLI.L HEROIN	000561-27-3	99

